Dediware Software User Manual

Version 2.2

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Important notice:

This document is provided as a guideline and must not be disclosed without the consent of DediProg. However, no responsibility is assumed for errors that might appear.

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I. General Description

This user manual illustrates how to install and use DediProg Dediware Software with DediProg programmers. Dediware is innovative and easy to use software that supports StarProg Engineering and ProgMaster Production series programmers.

Dediware has two different modes dedicated for different types of needs. Engineering mode has all the necessary functions, including basic functions like read ID, read, blank check, program, verify, batch and advanced function like protection, auto-start, and standalone project which commands are also available.

Production mode provides three kinds of programming modes, Manual mode, Auto detect and handler mode. It also can control several programming devices simultaneously and individually to achieve the best productivity. The Unique key function can make the serial number for your needs. All updates and further versions of Dediware software are free to download and can be found on DediProg official website: **www.dediprog.com**

II. System Requirements

2.1 Hardware Support

- Dual-core CPU or above
- 100GB Hard drive or above
- 1GB of RAM or above
- USB 2.0

※ For eMMC or NAND IC programming , the faster hardware requirements the better.

2.2 Operating System Requirements

- Windows 8.1
- Windows 8
- Windows 7
- Windows Server® 2008
- Windows Vista®
- Support both 32-bit and 64-bit OS

III. Programmer Information

3.1 Support IC

Dediware software supports the following DediProg programmers.

TYPE / Programmer	SPI Flash	SPI NAND	Parallel Nor/NAND Flash	EEPROM	MCU	CPLD	eMMC
StarProg-F	◎	◎	◎	◎			◎
StarProg-U	◎	◎	◎	◎	◎	◎	◎
StarProg-ATE	◎	◎		◎	◎	◎	◎
ProgMaster-F4/8	◎	◎	◎	◎			◎
ProgMaster-U4/8	◎	◎	◎	◎	◎	◎	◎

3.2 Multi-programmers Capability

Same product models can be driven by one PC or notebook at the same time. The correct connection is shown in Fig. 3-1, the PC connected with all ProgMaster-F4 programmers. Fig 3-2 shown incorrect connection, since the StarProg and ProgMaster cannot be connected by 1 PC.

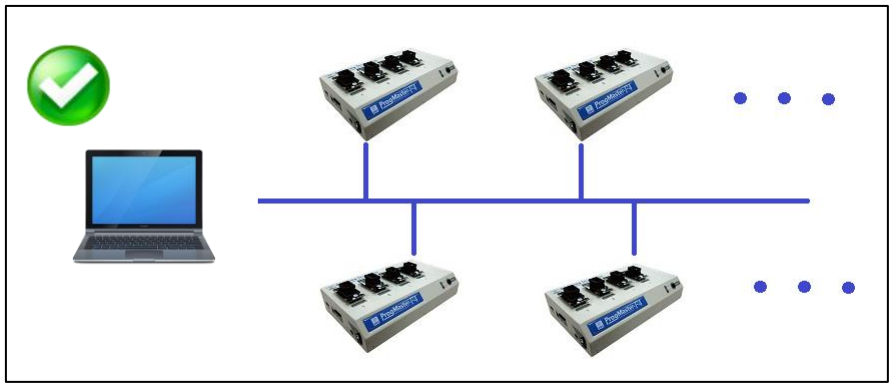


Fig. 3-1 same model programmers can be connected by one PC

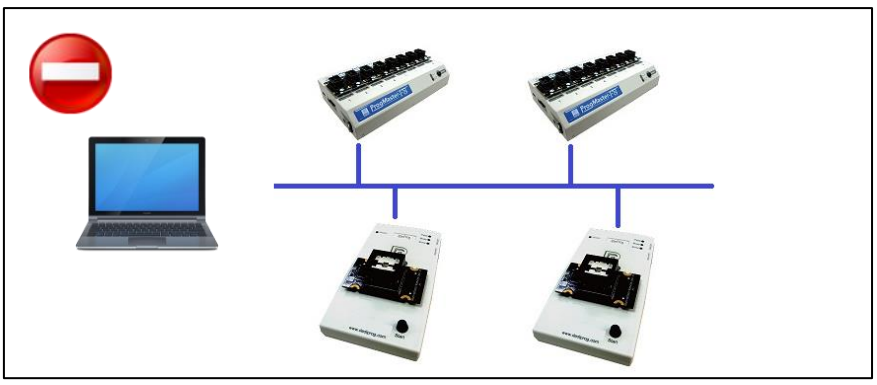


Fig. 3-2 Different model programmers cannot be connected by one PC

3.3 Programmer and Dediware function

According to different programmers, the function of Dediware is slightly different. Please refer the following table:

Function / Model name	Engineer mode	Production mode	Unique key	Stand alone	LCD Keypad	ATE Port
StarProg-F	◎	◎	◎	◎	◎	
StarProg-U	◎	◎	◎	◎	◎	
StarProg-ATE	◎	◎	◎	◎	◎	◎
ProgMaster-F4/8	◎	◎	◎	◎	◎	
ProgMaster-U4/8	◎	◎	◎	◎	◎	

Information:

A. StarProg series do not support production mode of eMMC.

B. User has to purchase the Standalone Dongle for standalone function.

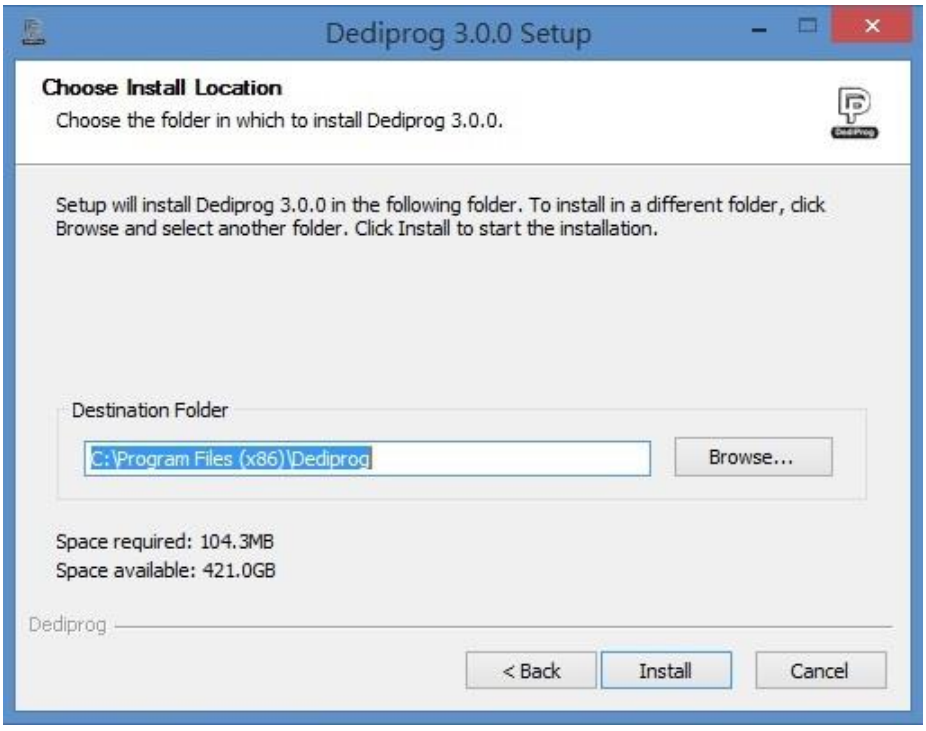
IV. Dediware Installation

Insert the installation CD or download the installation software from DediProg official website: www.dediprog.com/download

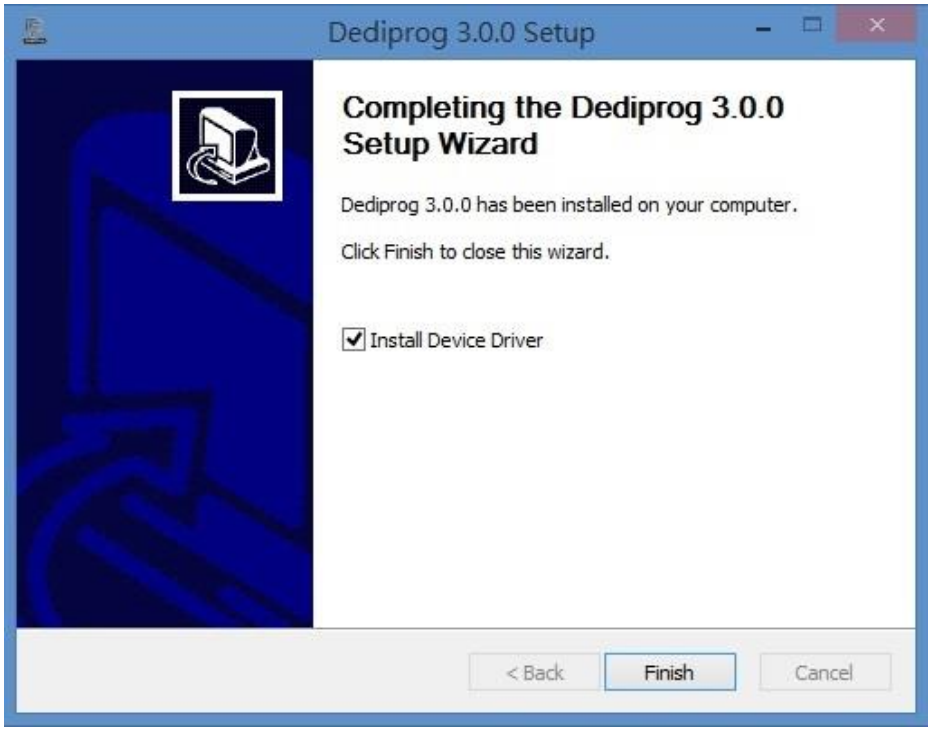
4.1 Run Dediware software

Dediprog 3.0.0 Setup
Welcome to the Dediprog 3.0.0 Setup Wizard
This wizard will guide you through the installation of Dediprog 3.0.0.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Cancel

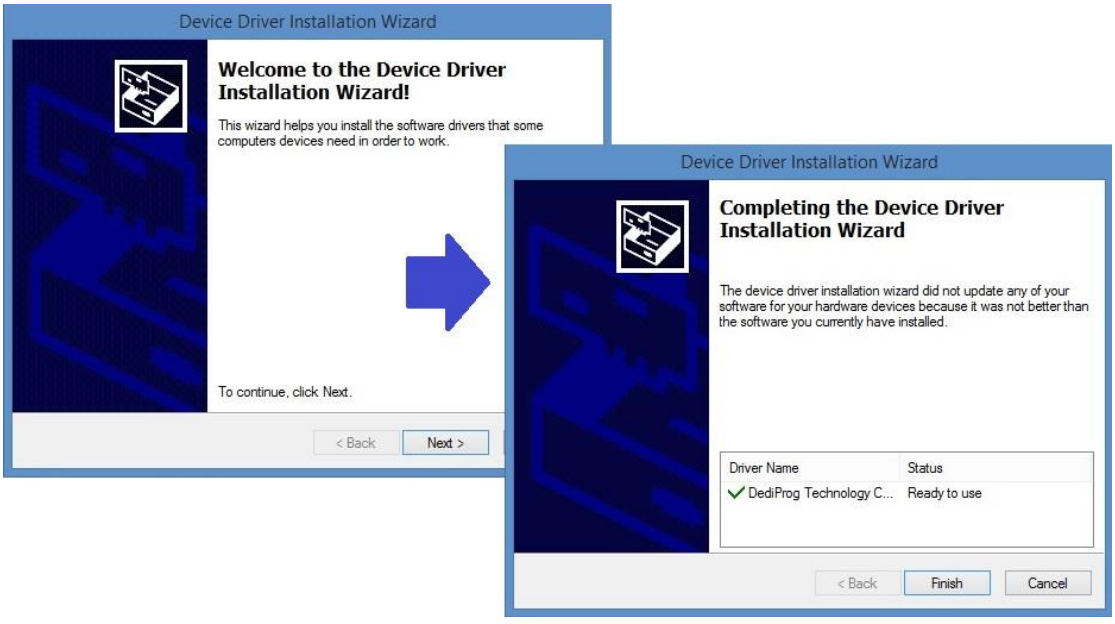
4.2 Select a destination folder to save the installation files, as shown below.


Dediprog 3.0.0 Setup
Choose Install Location
Choose the folder in which to install Dediprog 3.0.0.
Setup will install Dediprog 3.0.0 in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.
Destination Folder
C:\Program Files (x86)\Dediprog
Browse...
Space required: 104.3MB
Space available: 421.0GB
Dediprog
< Back
Install
Cancel

4.3 Click “Finish” to close the window or check the “Install Device Driver “ to install the programmer driver.



4.4 Programmer driver and Dediware software are installed successfully.


Device Driver Installation Wizard
Welcome to the Device Driver Installation Wizard!
This wizard helps you install the software drivers that some computers devices need in order to work.
To continue, click Next.
< Back
Next >
Device Driver Installation Wizard
Completing the Device Driver Installation Wizard
The device driver installation wizard did not update any of your software for your hardware devices because it was not better than the software you currently have installed.
Driver Name
Status
DediProg Technology C...
Ready to use
< Back
Finish
Cancel

Note：

Please make sure to upgrade your firmware version to 2.x.x before installing new Dediware software. Please refer to **VIII. FAQ**

V. Dediware Introduction

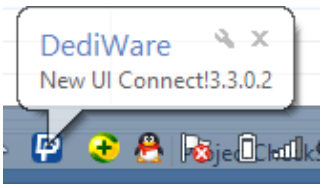
Must place the programmer and socket adaptors well and make sure turn on the programmer power and confirm the OS status is ready before you run Dediware.

5.1 Open Dediware

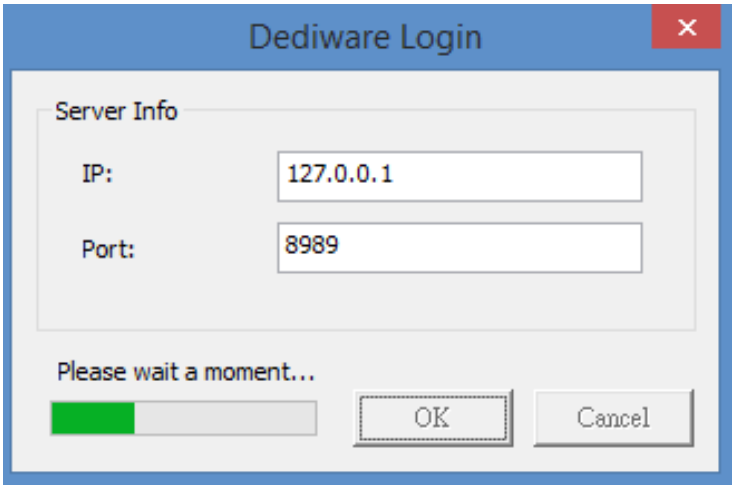
Double-click to open Dediware.

Dediware is based on Client-Server technology.

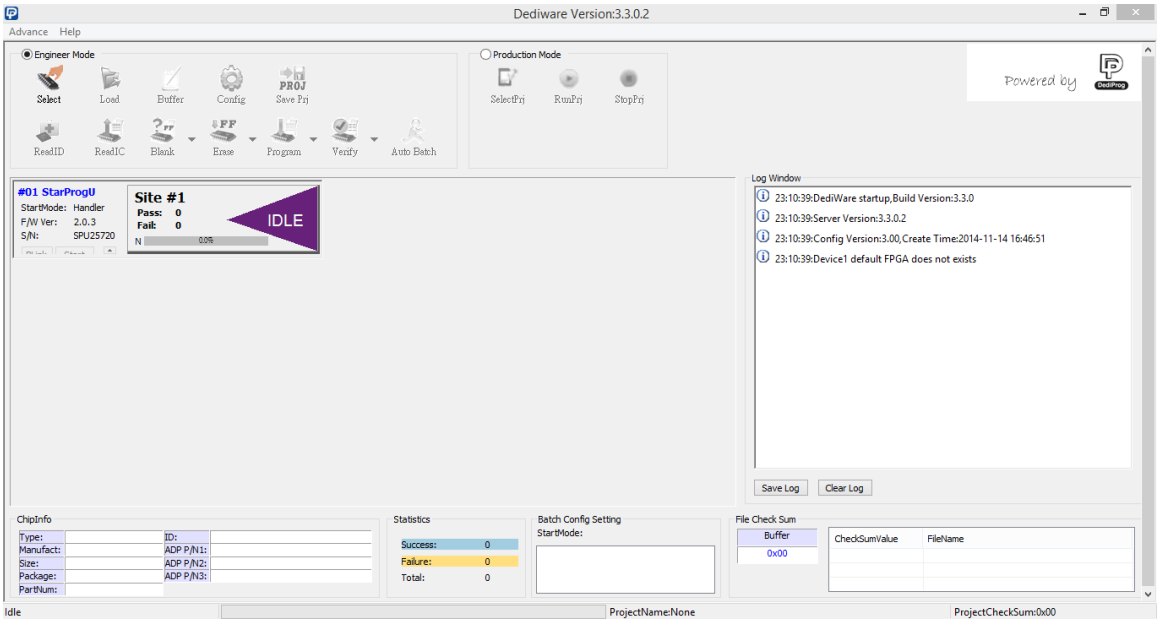
The Dediware icon will show in the windows taskbar.



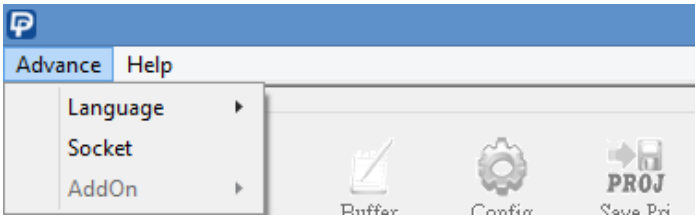
Dialogue box will show the Client login message. Click OK to connect with Server. If an error message appears, please refer to **VIII.FAQ**



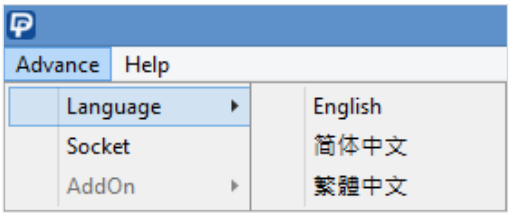
5.2 Software Interface



5.2.1 Main menu



A. Language：English, simplified Chinese and traditional Chinese.

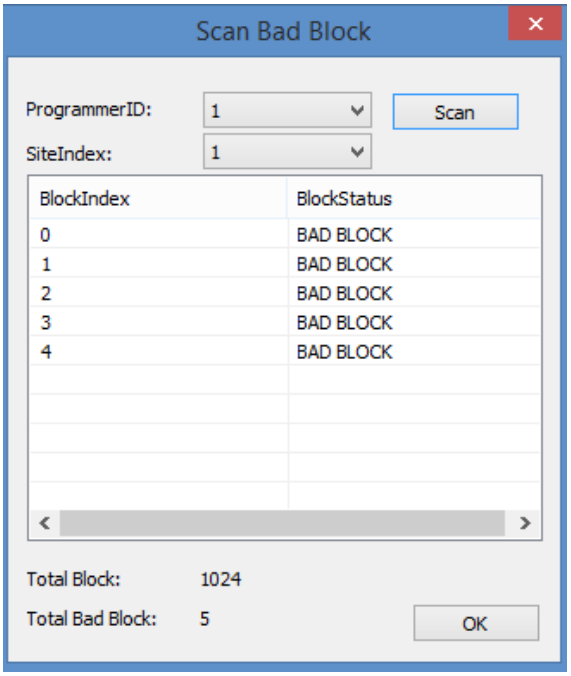


B. Socket：Set and check the number of times the socket adaptor is used.

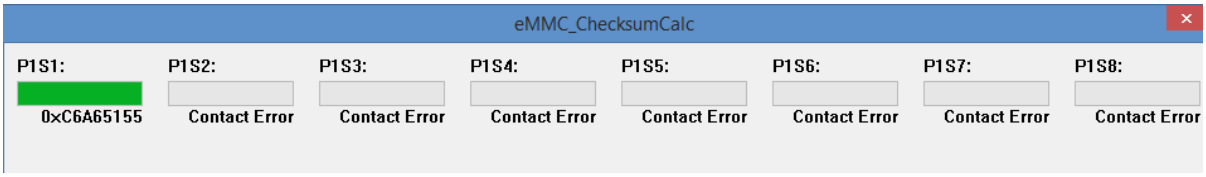
C. AddOn：

The Scan Bad Block function is for NAND flash use. User can check the Bad block location of NAND Flash (If there is more than 255 bad blocks. The status of total bad block will show “Too Many”).

Besides, Dediware will check the first spare area location on the first page of each block is Non-0xFF.



Consider the capacity of eMMC, the Checksum calculate function can be more convenient when using.



D. Help：

a) Download Default FPGA：

It can improve the software speed when more than one programmer is connected to PC. The default has been set well before shipping to user.

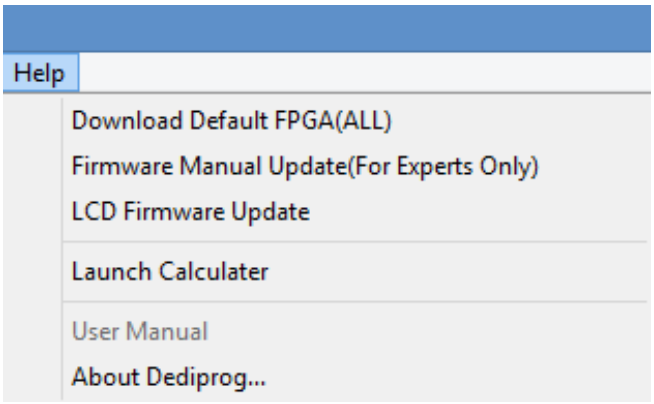
b) Firmware Manual Update：

The default path of firmware file：C:\Program Files (x86)\Dediprog\Firmware

c) LCD Firmware Update：

This function is for upgrading the LCD keypad firmware if user has standalone dongle.

d) Others functions can run Windows calculator, show user manual and the Dediware version.



5.2.2 Toolbar

A. Engineer Mode:

The toolbar includes icons for quick access to the majority of the functions.

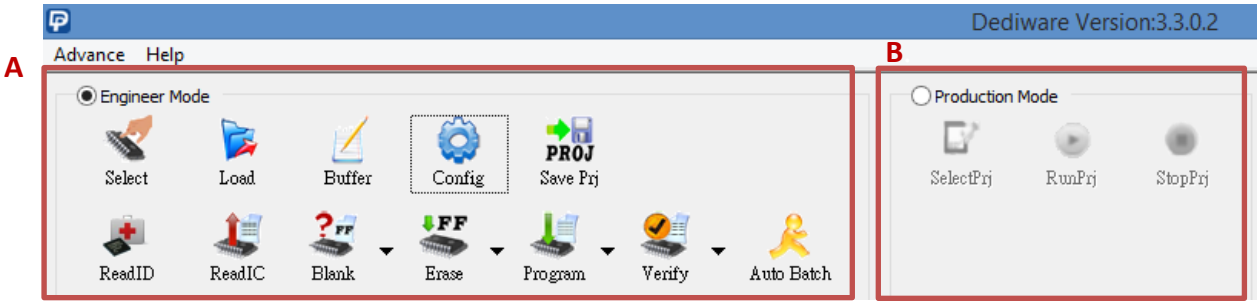
Upper row –Select, Load, Buffer, Config, Save Prj

Lower row- Read ID, Read IC, Blank, Erase, Program, Verify, Auto Batch

Please refer to **VI.Engineering Mode** for detail introduction.

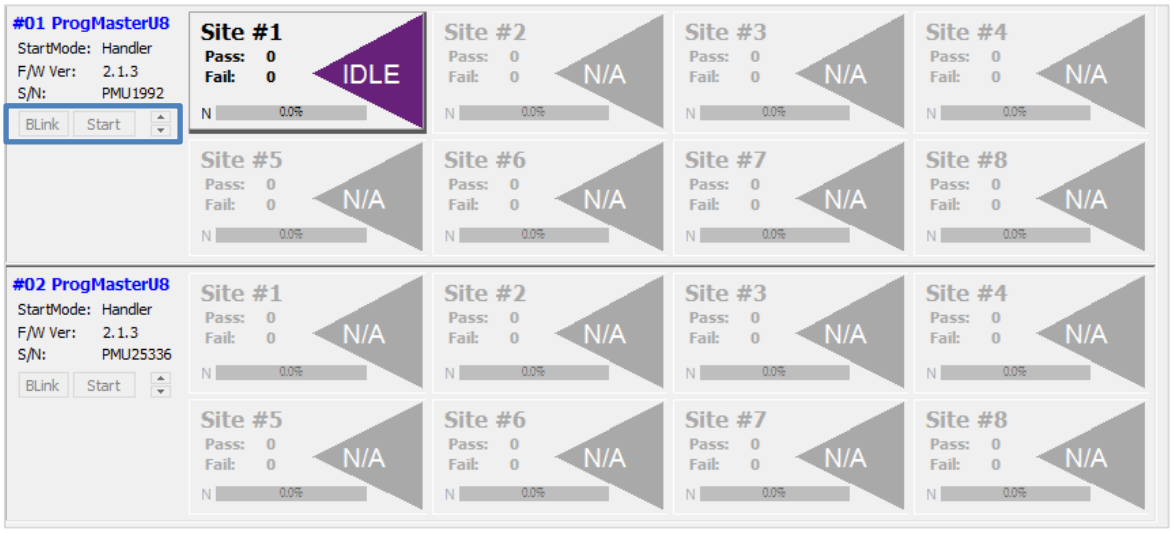
B. Production Mode:

Select Prj, Run Prj and Stop Prj. Please refer to **VII.Production Mode** for detail introduction.



5.2.3 Programmer Status Window

This area indicates that the status of each programmer. As shown below, there are show status of two ProgMaster-U8 which including model name, firmware version and serial number(S/N).The Site#1~8 show each programming site status.



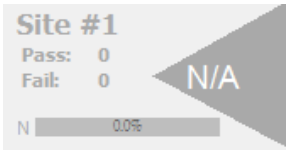
The **Blink** and **Start** function can only be set during production mode after downloading the project.

- Blink：All lights on the programmers will be on. Use when several programmers are connected.
- Up/down button ：Set the orders of programmers. The top is the first programmer.
- Start：When Start Mode is in manual, click start button to start the production programming.

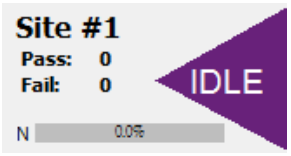
*Please note that, Dediware software only accept that same programmer model connected at the same time.

※The programming site status

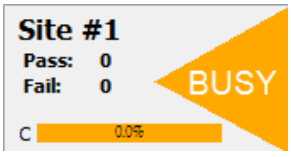
1. Unused or unselected



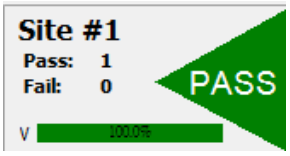
2. Idle site



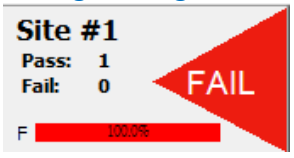
3. Programming



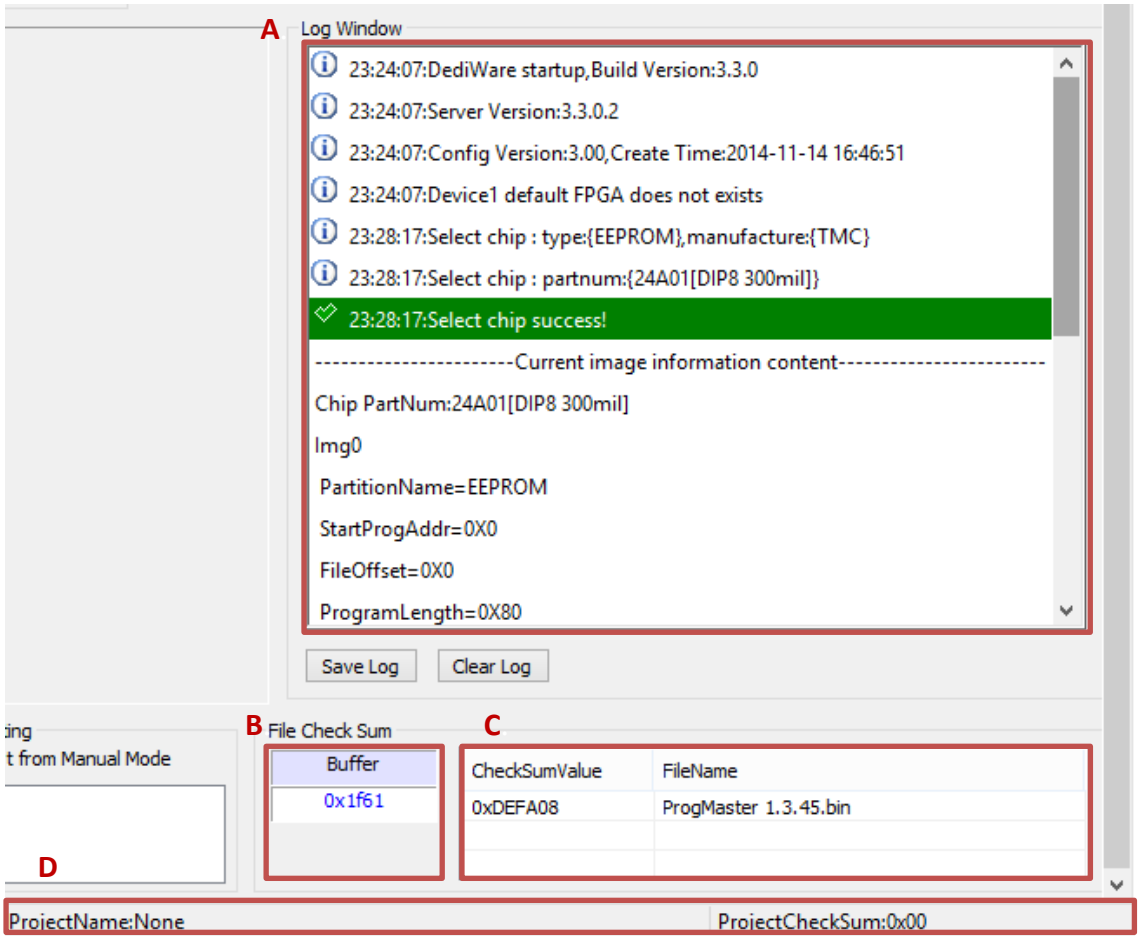
4.Programming successful



5.Progrmming failed



5.2.4 Log Window



A. Log Window：

Log window records all progress information and steps which can be saved to the installation folder automatically.

Click “Save Log “to save as a new file .Click “Clear Log” to clean the log window and record to a new file.

B. Buffer：

Here shows the chip checksum. (The function does not support NAND and eMMC)

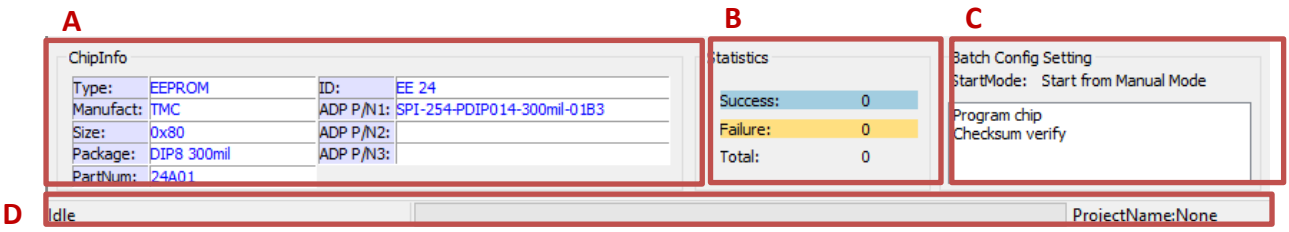
C. File Check Sum：

After downloading the programming file, the file checksum and file name will show in the table. Several files loaded at the same time will be shown in the table based on their priority.

C. ProjectName / ProjectCheckSum：

After downloading programming project, the project checksum and project name will show here.

5.2.5 Information window



A. Chip Info：

- Type: IC type
- Manufact : IC manufacturer
- Size: Memory size
- Package: IC package
- PartNum: Part number
- ID: Chip ID
- ADP P/N1~3: Socket adaptor part number

B. Statistics：

Statistics Window indicates the number of successful, unsuccessful (Failure), and total programmed chips.

C. Batch Config Setting：

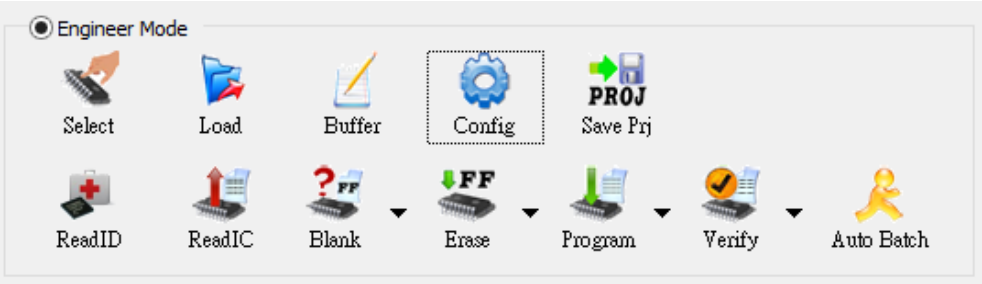
Batch Config Settings contain information of batch and start mode setting.

D. Software Status：

Show the Dediware current status.

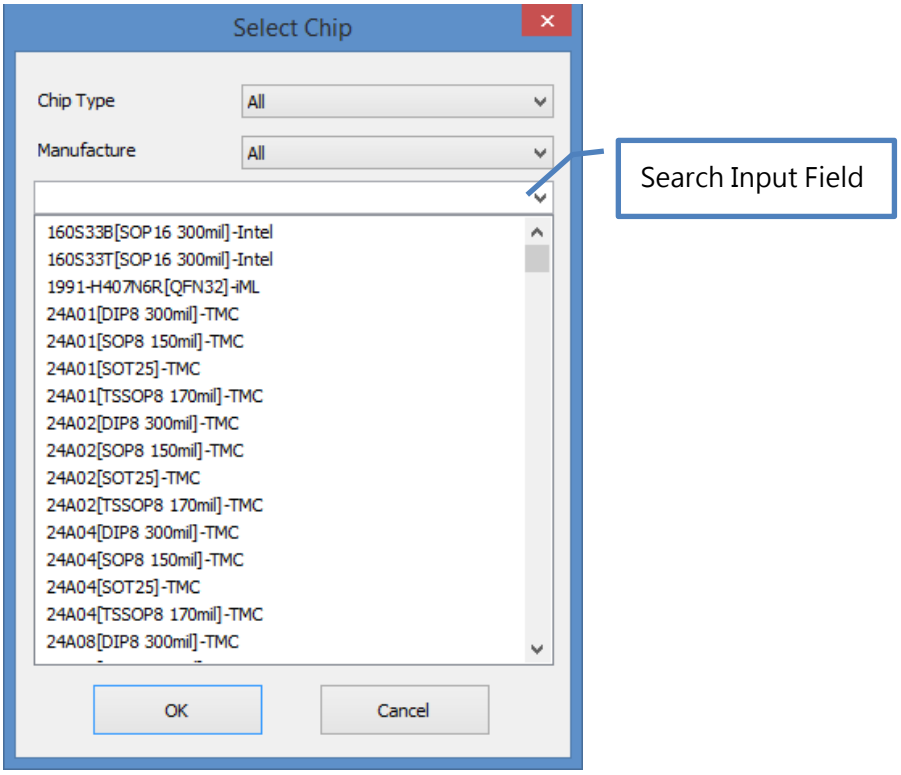
VI. Engineering Mode

Engineering mode offer the programming, verify and testing functions. Users can turn project file to the production mode.

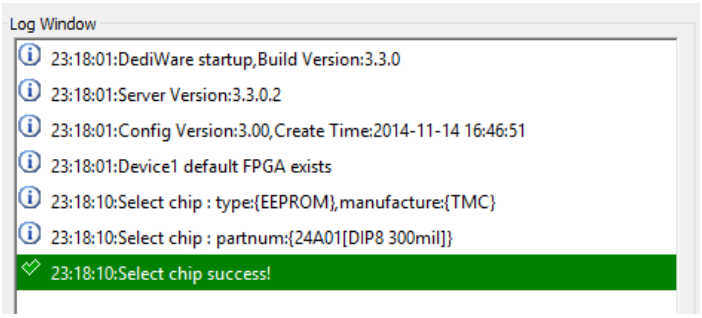


6.1 Select: Choose IC manufacturer /part number /package

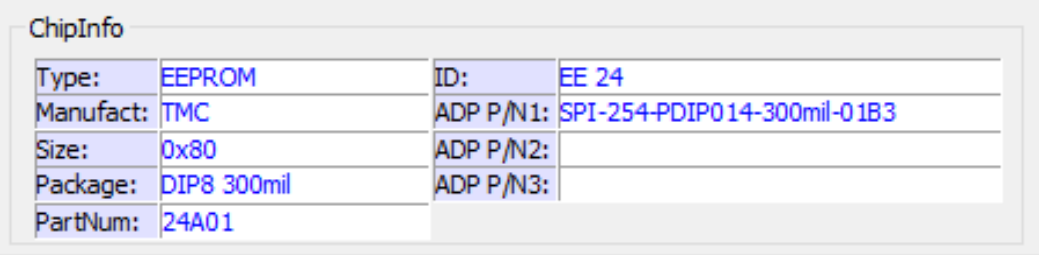
- If the manufacturer is known, user can select the chip type and manufacturer directly. The related IC part numbers will show in the chip list.
- Search IC by typing IC part number in the field circled by the blue frame. It is recommended to choose “All” in the “Chip Type” and “Manufacture” to avoid limiting the search results.
- The input field has the memory function to store 5 sets of IC part number that can be selected by pressing the button on the right.
- Double-click selected IC in chip list.
- The searching process is not case-sensitive.



Log window will show the successful message as shown below after choosing the IC.



IC information will also show in the ChipInfo window.

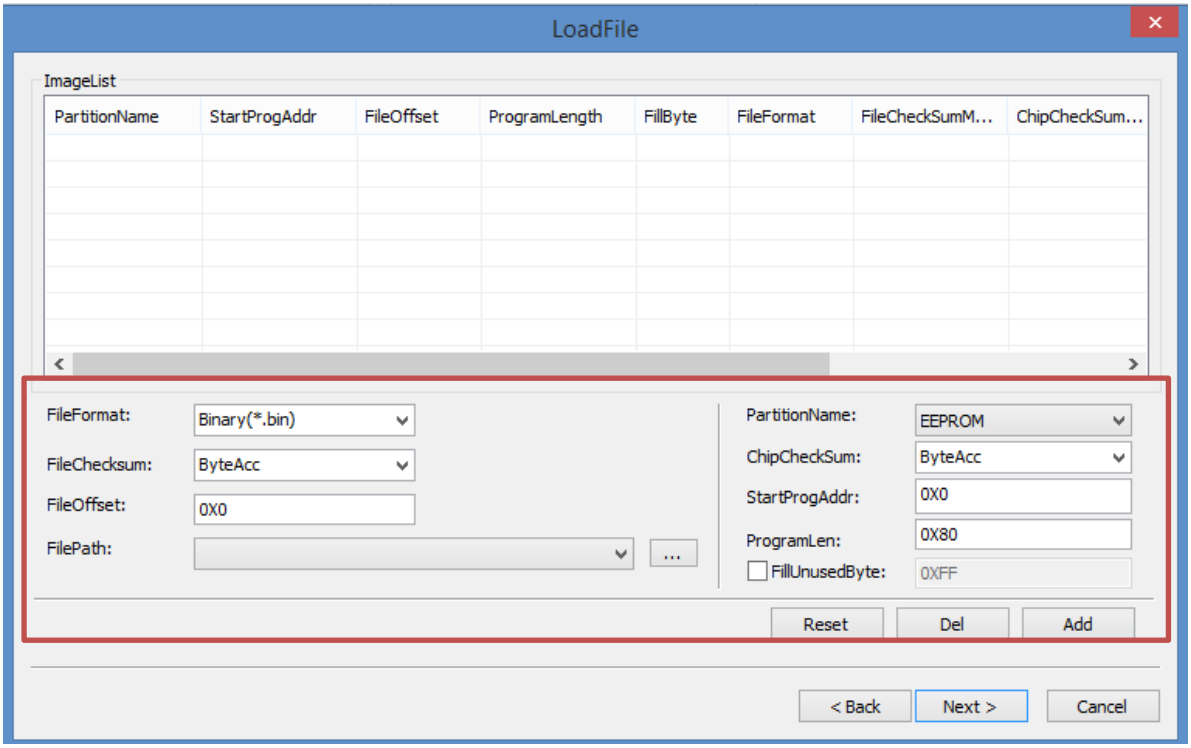


6.2 Load

Select "**Load"** to load the file intended for the programmer. According to different IC type, the file settings will divide into normal IC, eMMC and NAND Flash.

6.2.1 Normal IC Programming Settings

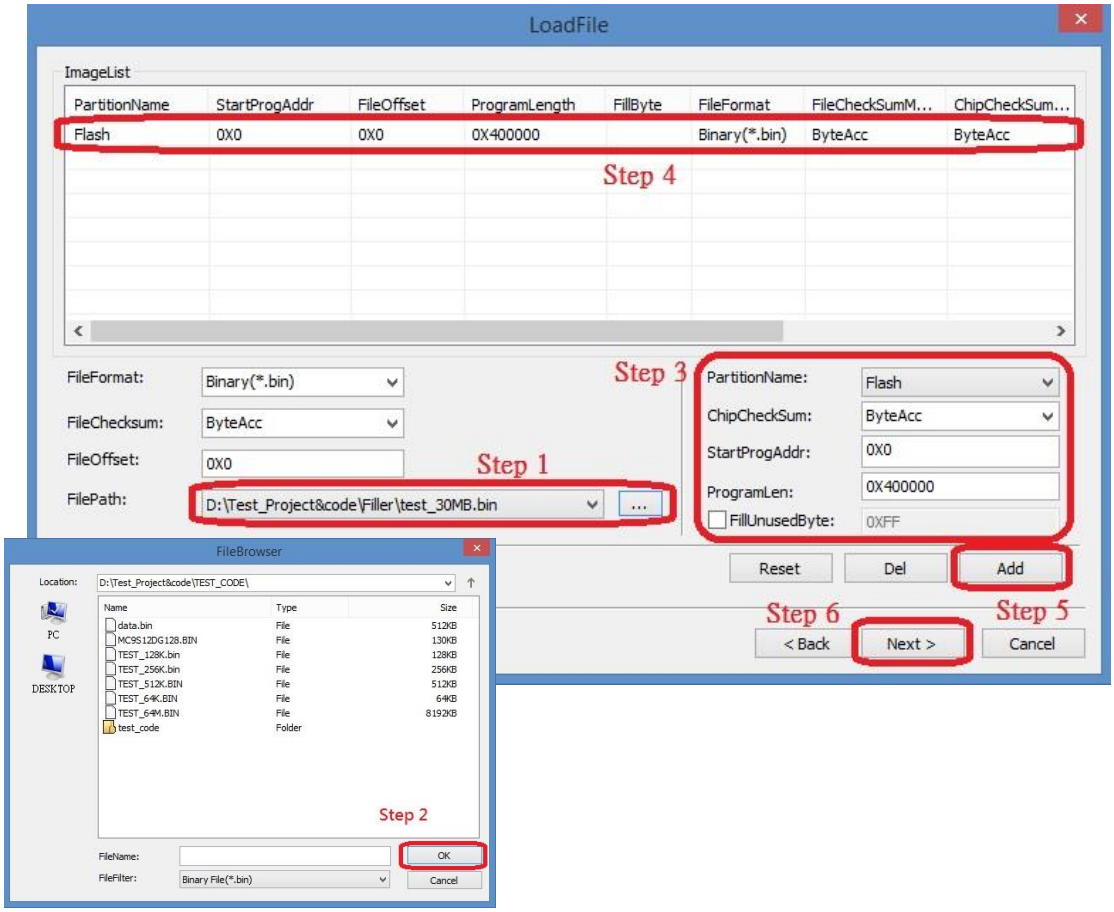
User can load one or several files at the same time.



- **File Format**：The format of programming file.
- **File Checksum**：File checksum
- **File Offset**：Set the address to start loading to buffer
- **File Path**：Shows the path of programming file.
- **Partition Name**：If the IC has more than one memory that can be programmed, the partition names can be selected in this drop-down list. (e.g. IC has Flash and OTP memory and the partition name list will have these two options.)
- **ChipCheckSum**：Calculating methods for whole IC.
- **StartProgAddr**：Select the file to programmer Buffer. When loading several files to the same partition, make sure that the Memory Addr has been set well.
- **ProgramLen**：Set the file size for loading.
- **FillUnuseByte**：Check the box to assign Unused Byte .The default value is 0xFF.
- **Reset**：Clear all programming files in the image list.
- **Del**：Delete the selected file in the image list.

- **Add**：Add the programming file to the image list.

Load File Steps：



Step1：Click the button to open the load file dialogue box.

Step2：Find the programming file.

Step3：Confirm the parameter setting.

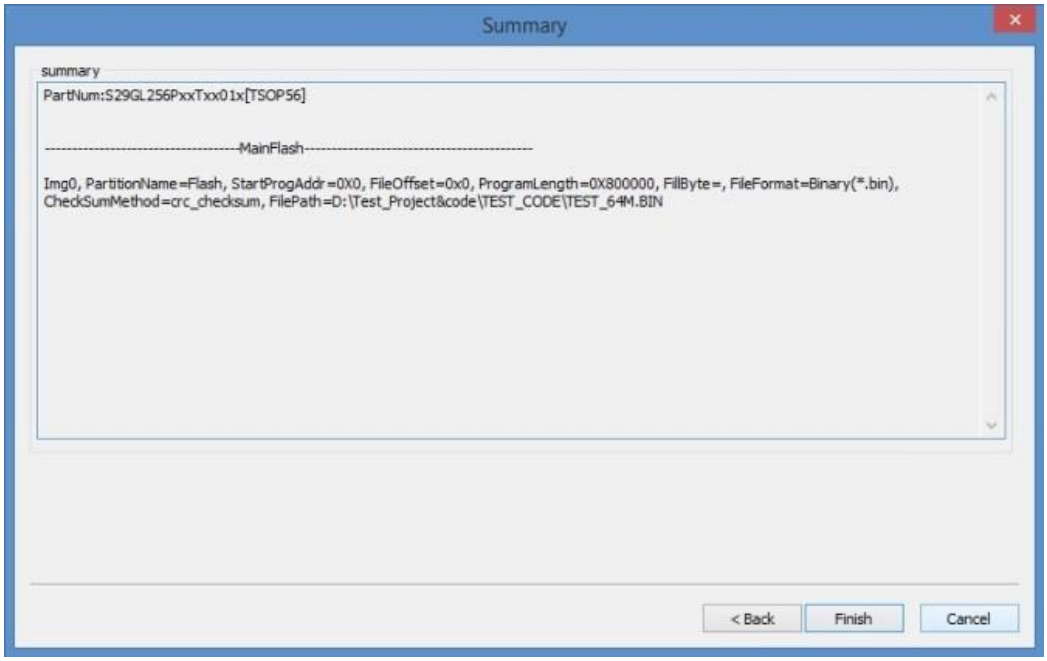
Step4：Click “Add” to add the file to the list. Repeat Step 1 to 4 to load more files.

Step5：Files information will show in the “ImageList”, if not, click “Del” or “Reset” to restart setting.

Step6：Click “Next” after checking all settings are correct.

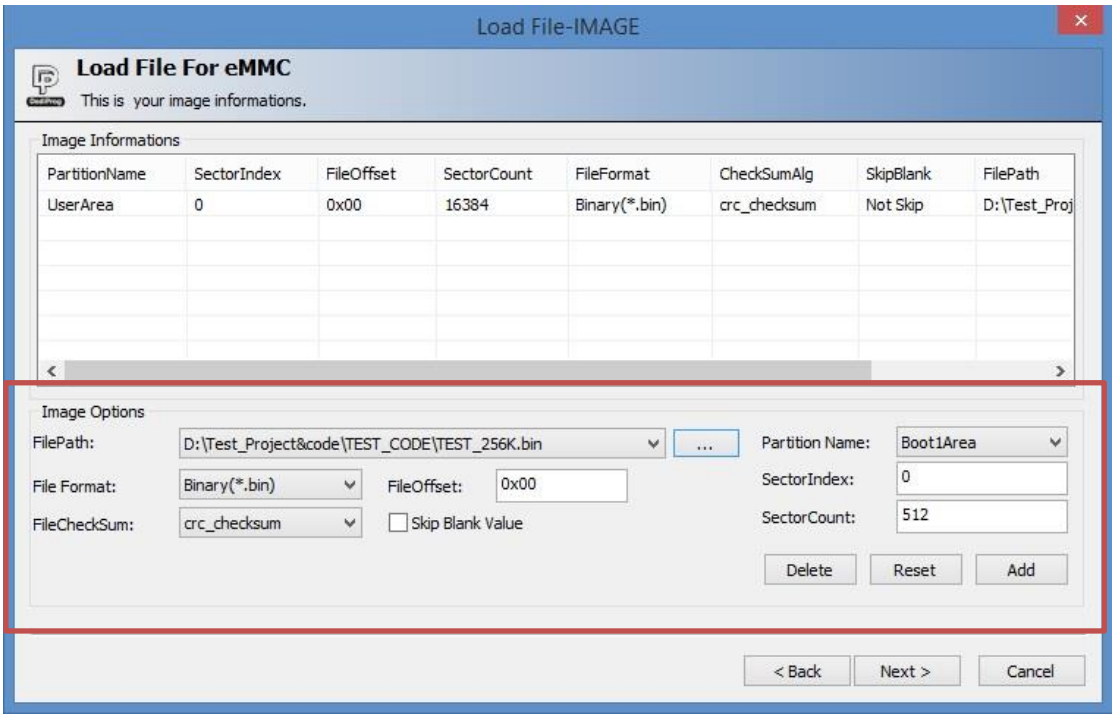
※ Once the error or warning message appears, please refer to **VIII. FAQ**

Step7：Summary window shows all setting information.



6.2.2 eMMC Programming Settings

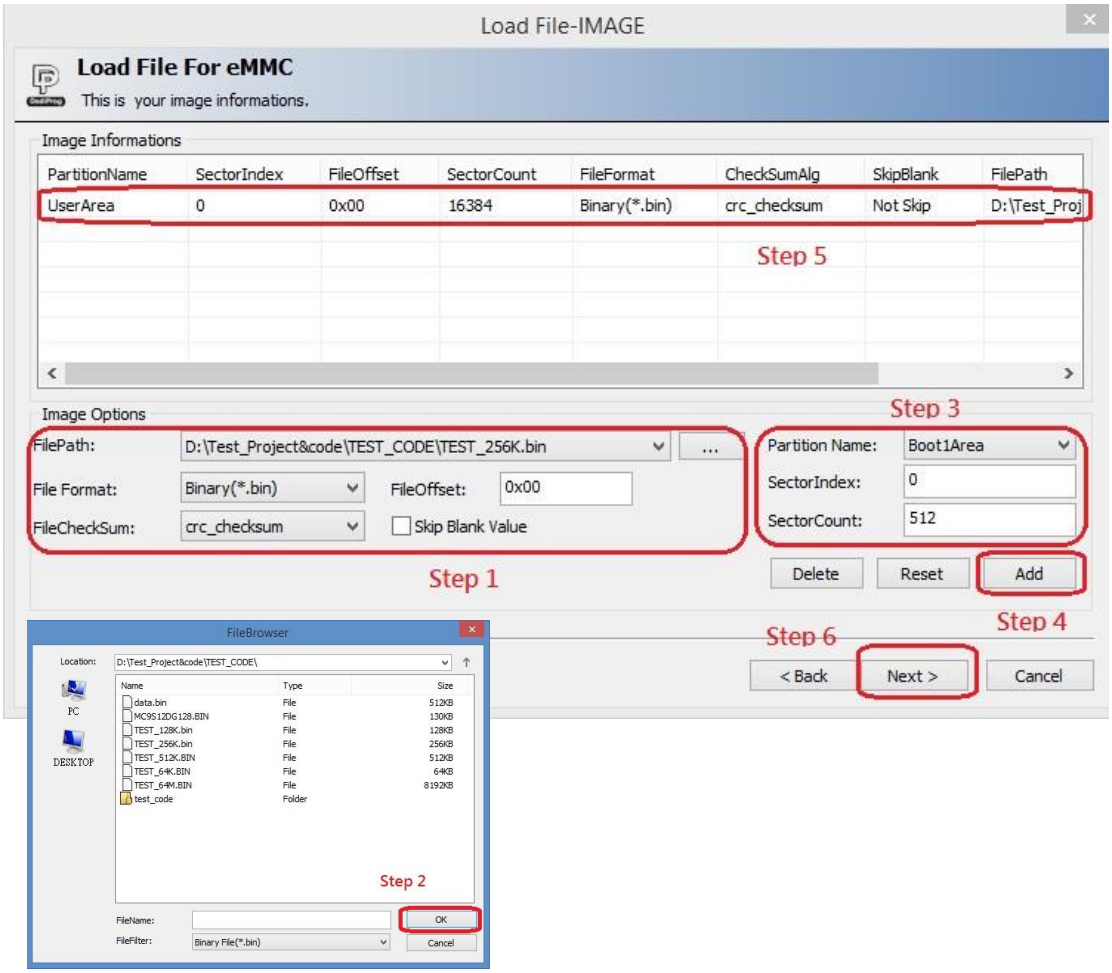
User can load one or several files at the same time.



(From left to right)

- **File Format**：The format of programming file.
- **File Checksum**：File checksum
- **File Offset**：Set the start address to start loading to buffer
- **File Path**：Shows the path of programming file.
- **Skip Blank Value**：Check the box to check the blank data and skip the blank when programming. Reduce the programming time.
- **Partition Name**：eMMC offers UserArea,Boot1Area and Boot2Area.
- **Sector index**：Set the start address of eMMC sector.
- **Sector count**：The total number of programming sector.
- **Reset**：Clear all programming files in the image list.
- **Del**：Delete the selected files in the image list.
- **Add**：Add the programming file to the image list.

eMMC Load File Steps：



Step1：Click button to open load file dialogue box.

Step2：Find the programming file.

Step3：Confirm the parameter setting.

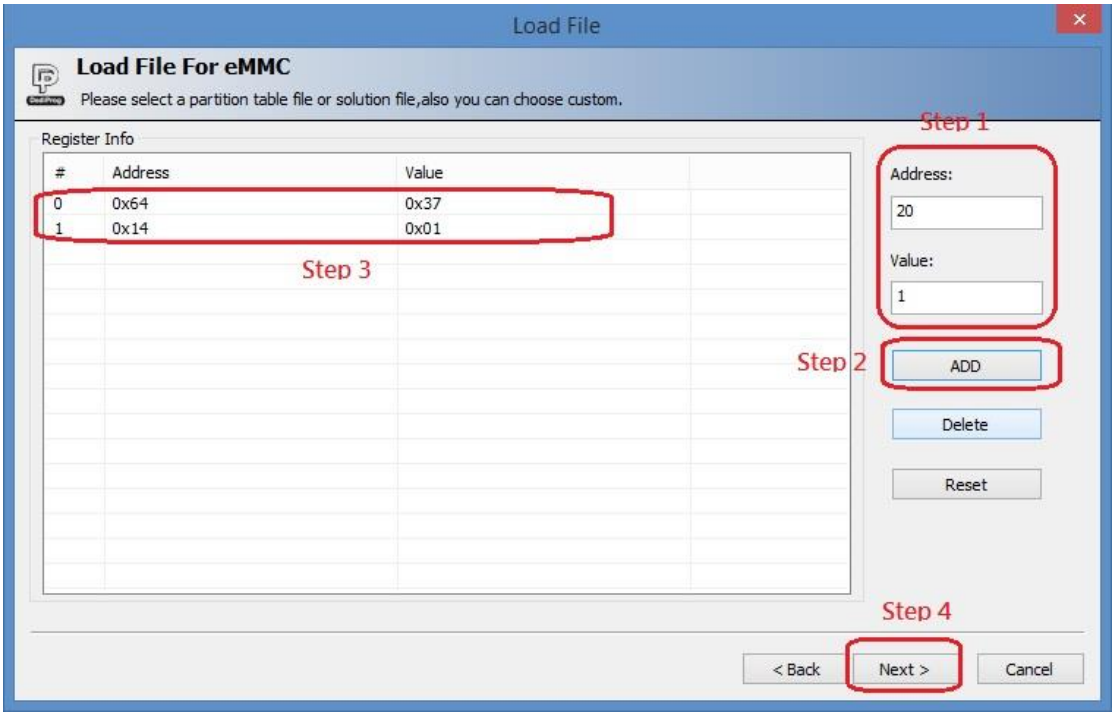
Step4：Click “Add” to add the file to list. Repeat Step 1 to 4 to load more files.

Step5：Files information will show in the “Image List” window, if not, click “Del” or “Reset” to restart setting.

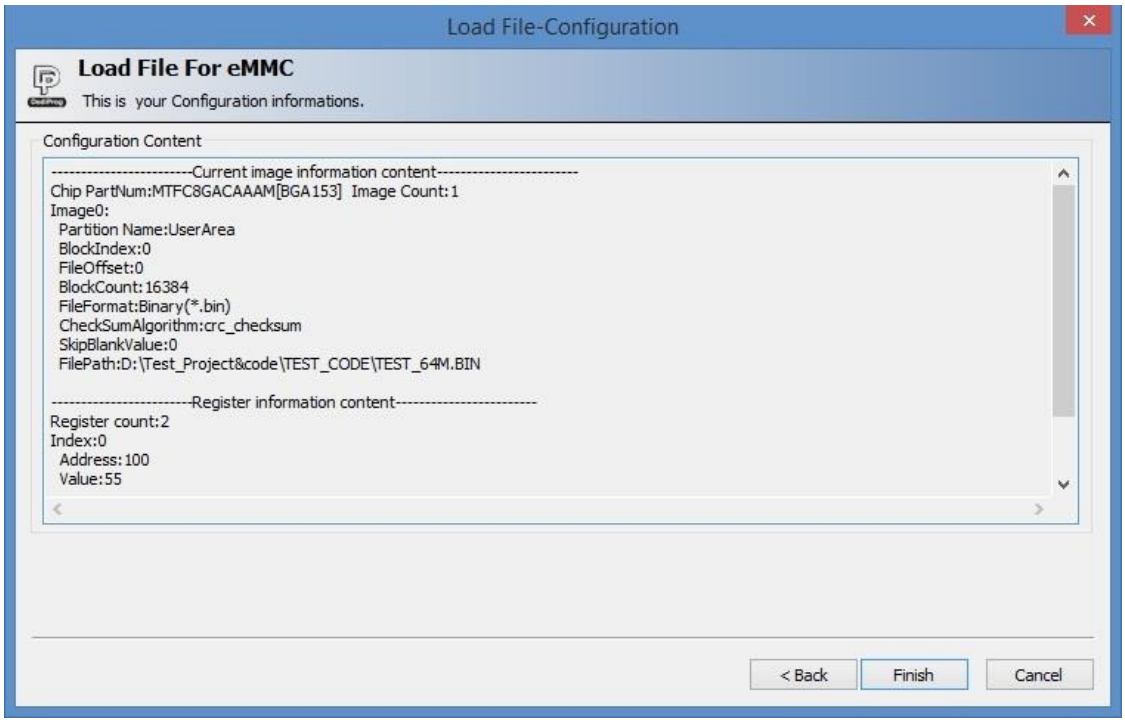
Step6：Click “Next” after checking all settings are correct.

※ Once the error or warning message appears, please refer to **VIII. FAQ**

Step7：Set ext CSD



Step8：Summary window shows all settings information.



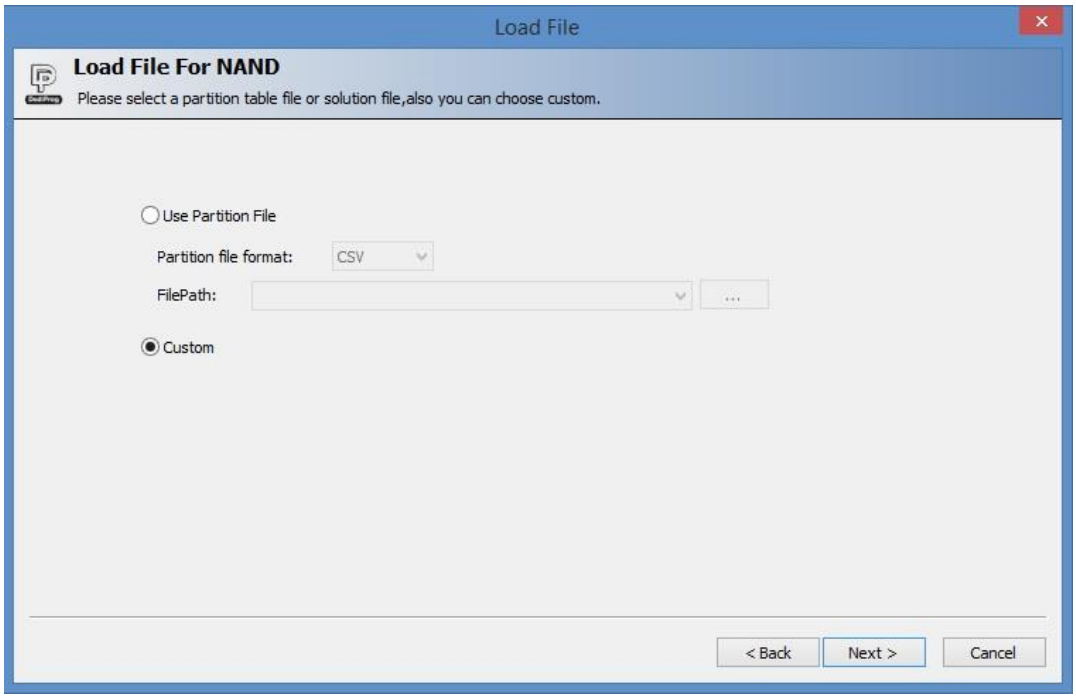
6.2.3 NAND Flash Programming Settings

A. Use Partition File：

Support CSV, DEF and MBN formats.CSV is Comma Separated Values Format, DEF is Group Define File Format and that MBN is Qualcomm Multiply Partition Format.

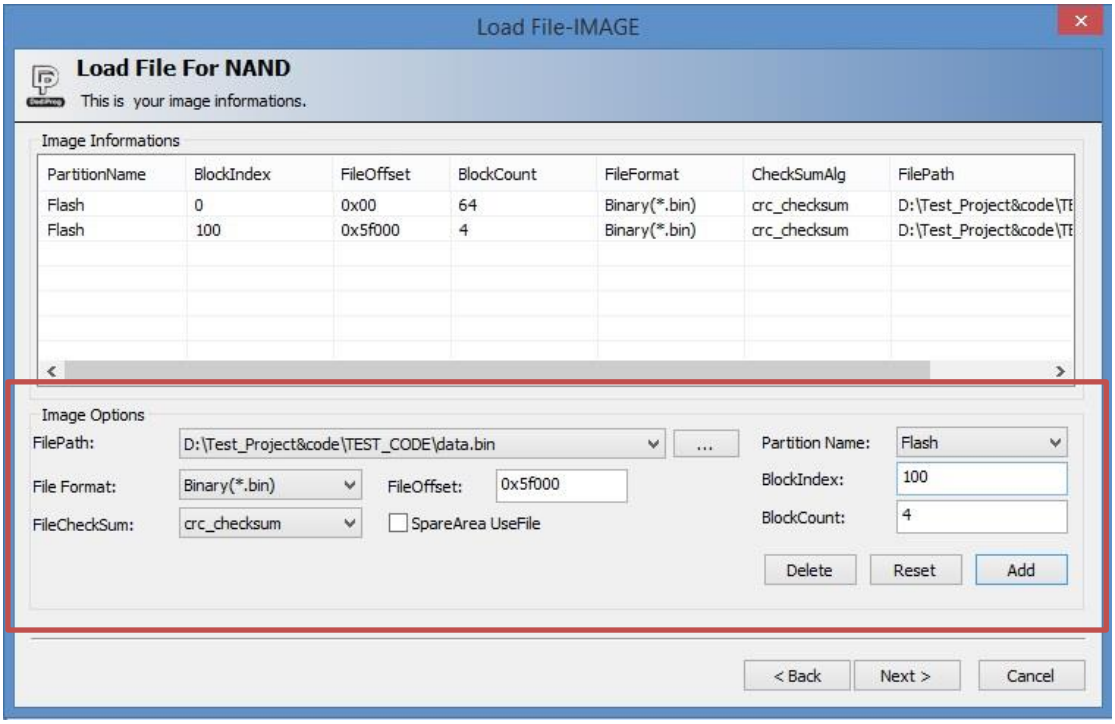
B. Custom：

Set the information of programming file.



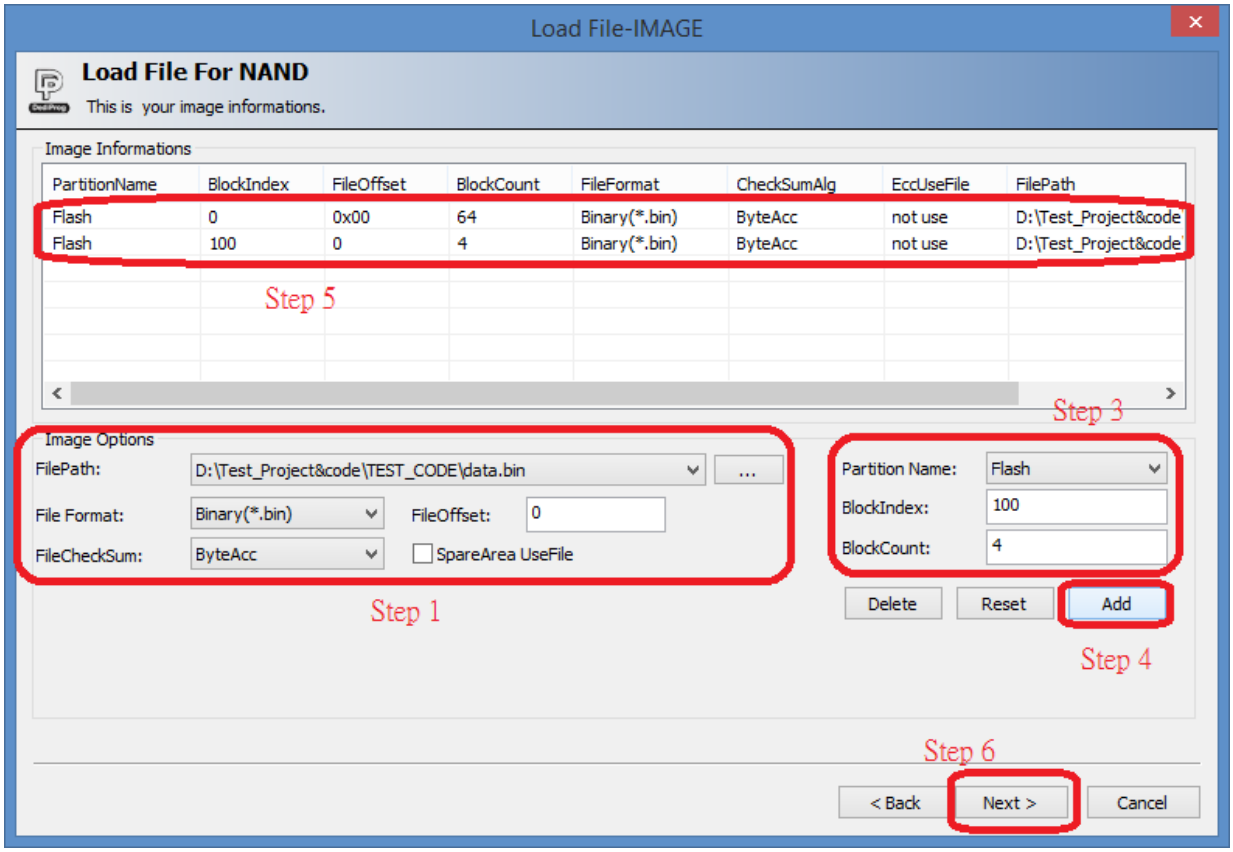
a) Select "Custom" to set programming file.

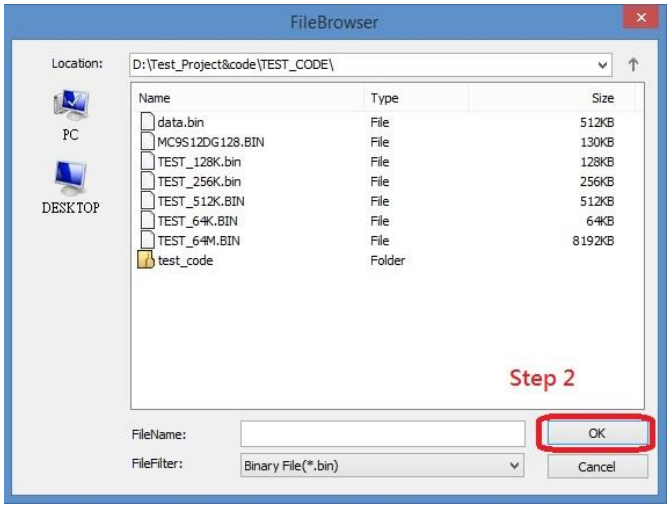
b) Load NAND Flash File function



- **File Format**：The format of programming file.
- **File Checksum**：File checksum
- **File Offset**：Set the address to start loading to buffer
- **File Path**：Shows the path of programming file.
- **SpareArea UseFile**：Check the function to enclose the SpareArea with file.
- **Partition Name**：Only Flash option can be selected.
- **Block index**：Setting the start of block.
- **Block count**：Total block number of programming.
- **Reset**：Clear all programming files in the image list.
- **Del**：Delete the selected files in the image list.
- **Add**：Add the programming file to the image list.

c) NAND Load File Steps：





Step1：Click on the button to open the load file dialogue box.

Step2：Find the programming file.

Step3：Confirm the parameter settings.

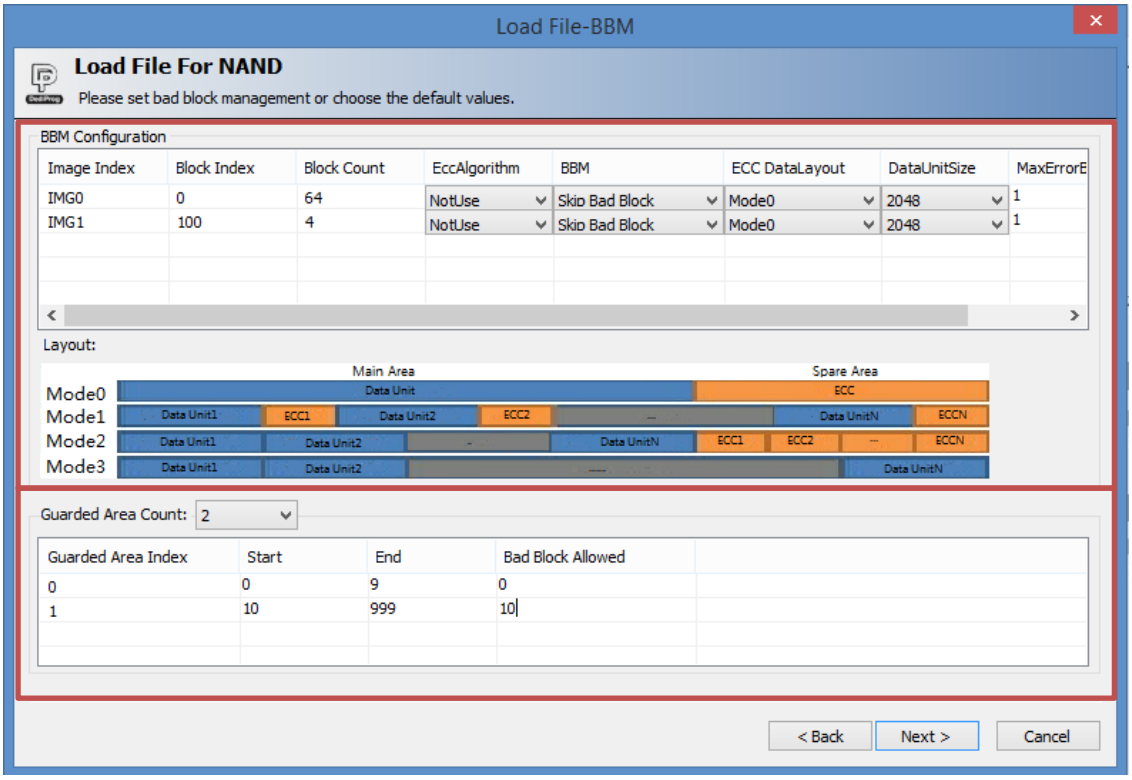
Step4：Click “Add” to add the file to list. Repeat Step 1 to 4 to load more files.

Step5：Files information will show in the “Image List” window, if not, click “Del” or “Reset” to restart setting.

Step6：Click “Next” after checking all settings are correct.

※ Once the error or warning message appears, please refer to **VIII. FAQ**

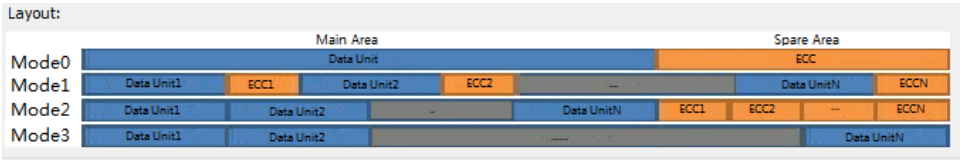
Step7：BBM Settings



A. BBM Configuration:

Set it according to the number specified at Load File. As the above figure shows, two Image files need to EccAlgorithm, BBM, EccDataLayout, DataUnitSize, and MaxErrorBit settings.

- **EccAlgorithm**：ECC calculation.
- **BBM**：Bad block management.
- **EccDataLayout**：Provides 4 kinds of data layout.



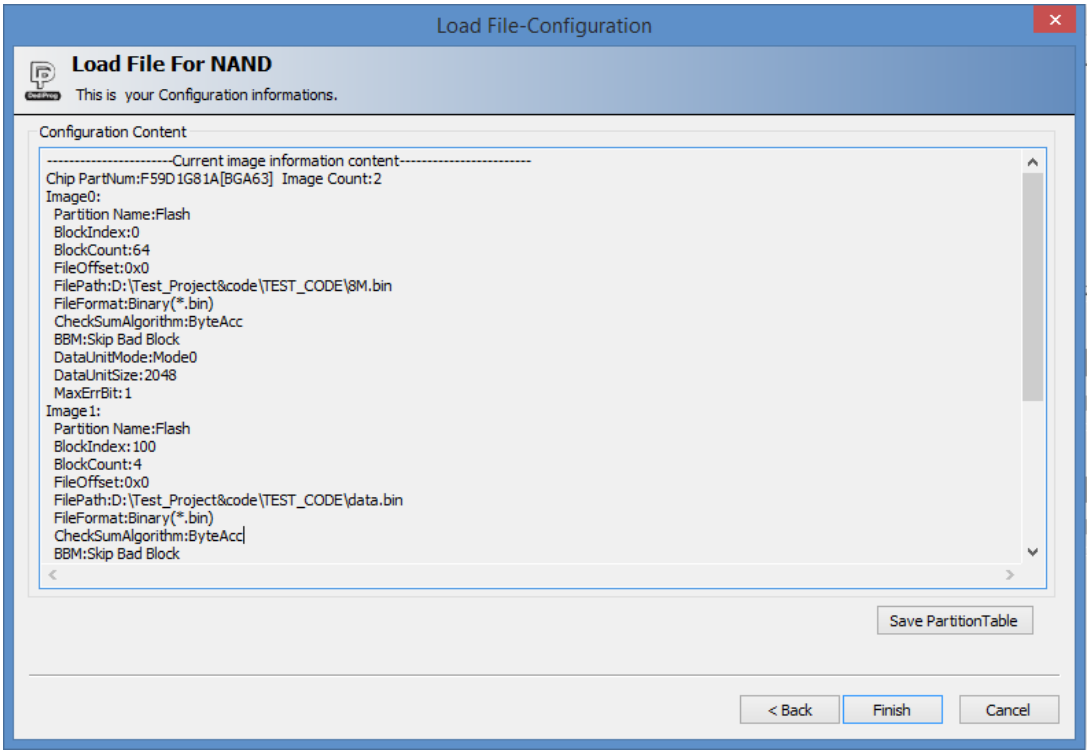
- **DataUnitSize**：According to the data layout to set the data unit size. In this case, 2048 Byte is used as the unit.
- **MaxErrorBit**：According to the data unit to set the maximum error bit of each unit. In this case, for 2048 Bytes, 1 bit error is allowed.

B. Guarded Area Configuration:

For setting NAND Flash bad block. In this case, first, Guarded Area Index is 0; Block0 to Block9 do not allow bad block. Second, Block 10 to Block 999 can allow 10 bad block. If one of these two conditions is met in the programming process, this IC will be considered as a failed IC.

Step8：Summary window shows all settings information. Save the settings by click “Save Partition File”. Select “Use Partition File” to load the file next time.

※ Save Partition File only for MBN file format.



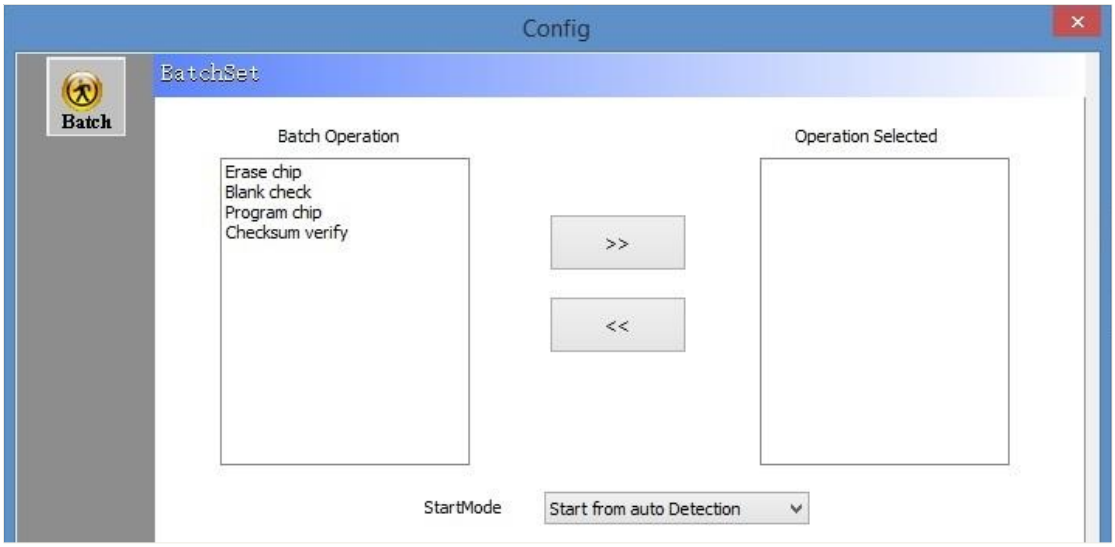
Note：

NAND Flash programming function includes the BBM and ECC setting.If user cannot find the suitable BBM and ECC for programming setting, please contact DediProg.

6.3 Config Setting

6.3.1 Batch Settings

Double-click or click to select options or click to remove.



6.3.2 StartMode Setting

To meet user needs, Dediware offer three production modes.

A. Start from Manual Mode：

Production mode will be activated by click “Start” on GUI or press the start button on programmer.

B. Start from Auto Detection：

Dediware will detect inserted chip and start to program automatically after running the RunPrj.

※StarProg-ATE / NAND / eMMC does not support this function.

C. Start from Handler：This function is suitable for DediProg automatic system.

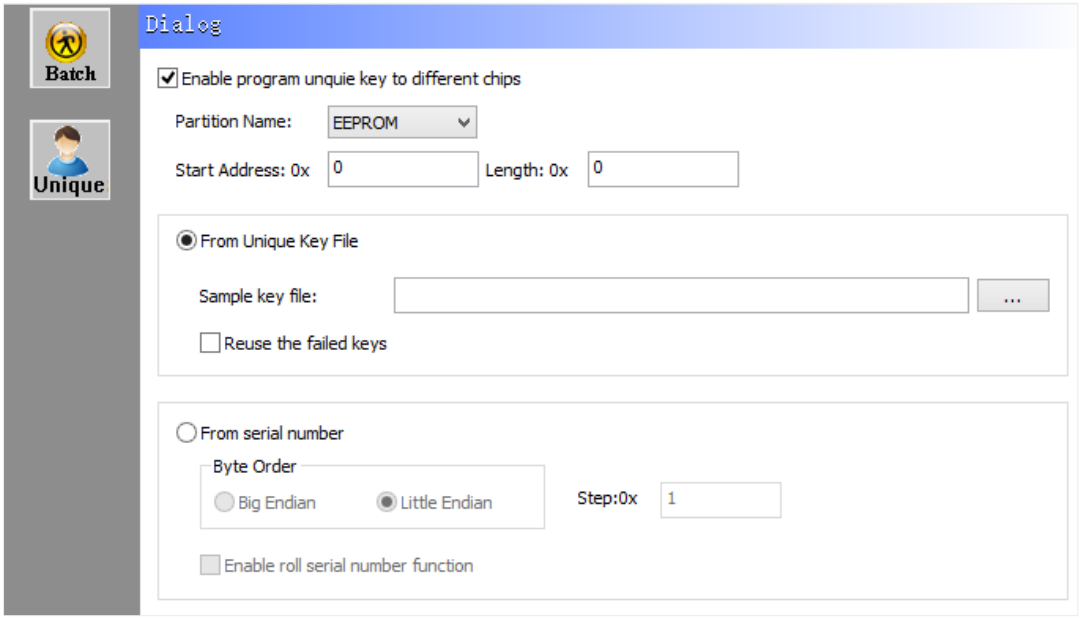
Note：

Programmer has the auto IC contact testing function in manual and auto detection mode. Users must take out the IC from the socket adaptor after programming. Please refer to **VIII. FAQ**

6.3.3 Unique Key Setting

Dediware has two kinds of Unique key for programming the key in the IC. One is loading the serial numbers file to program; another is to give the random key from Dediware automatically.

※Please note the Unique key only can be used in production mode.

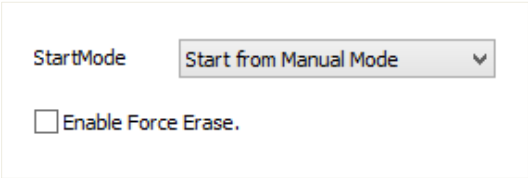


- **Enable program unique key to different chips**：The Unique key will be activated automatically in the production mode.
- **Partition Name**：Assign the partition of programming.
- **Start Address**：Assign the start address of programming (Hexadecimal).
- **Length**：The length of unique key.
- **From unique key File**：
  - Sample key file：Read the length of key after load the file.
  - Reuse the failed keys：Reuse the failed key when the unique key programming failed.
- **From serial number**：
  - Byte Order：Select the key number order is by Big Endian or Little Endian.
  - Step：The serial number cumulative value. Default is 1, ex：0000、0001、0002...etc.
  - Enable roll serial number function：If the numbers over the setting range, reuse from the first number again.

Please save as the project file after setting.
Load the file in the production mode for more detail setting.

6.3.4 Others function of Config

6.3.4.1 Enable Force Erase only for NAND Flash



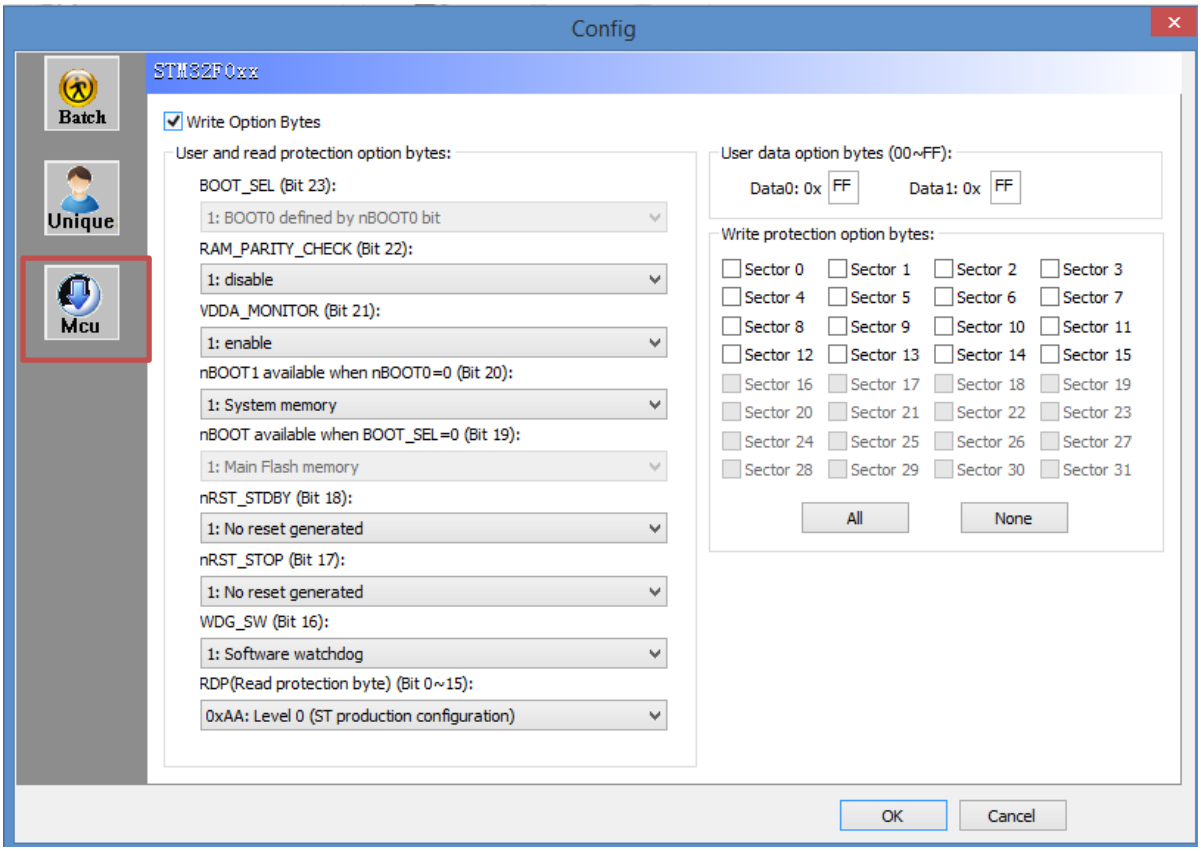
In order to fix the bad block issue of NAND Flash. If Batch setting includes Erase Blank, Program and Verify then the software will show the check box asking for force erase.

A. Disable Force Erase：Read ID→ Software produce BBT (Bad Block Table) →Erase and Blank will do “SKIP” by BBT →Program and Verify will process based on BBM setting. (Default value is “SKIP”)

B. Enable Force Erase：Read ID→ Erase all (include Bad Block) → Software produce BBT (Bad Block Table) → Blank will do “SKIP” by BBT→ Program and verify will process based on BBM setting. (Default value is “SKIP”)

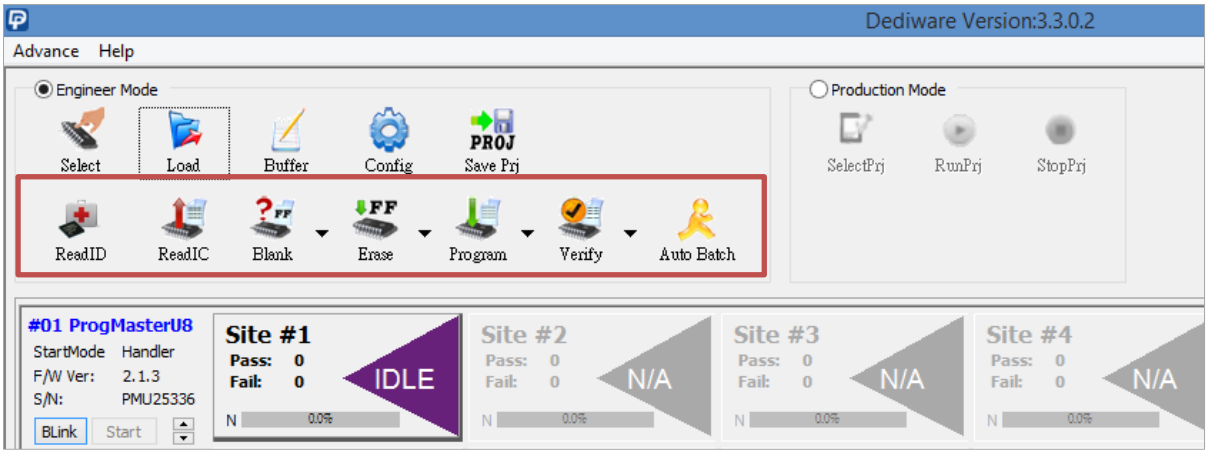
6.3.4.2 Option Setting

According to different IC types, Config will offer the optional setting. In this case is showing the option setting of MCU (STM32F030CT6).


Config
Batch
Unique
Mcu
STM32F0xx
Write Option Bytes
User and read protection option bytes:
BOOT_SEL (Bit 23):
1: BOOT0 defined by nBOOT0 bit
RAM_PARITY_CHECK (Bit 22):
1: disable
VDDA_MONITOR (Bit 21):
1: enable
nBOOT1 available when nBOOT0=0 (Bit 20):
1: System memory
nBOOT available when BOOT_SEL=0 (Bit 19):
1: Main Flash memory
nRST_STDBY (Bit 18):
1: No reset generated
nRST_STOP (Bit 17):
1: No reset generated
WDG_SW (Bit 16):
1: Software watchdog
RDP(Read protection byte) (Bit 0~15):
0xAA: Level 0 (ST production configuration)
User data option bytes (00~FF):
Data0: 0x FF
Data1: 0x FF
Write protection option bytes:
Sector 0 Sector 1 Sector 2 Sector 3
Sector 4 Sector 5 Sector 6 Sector 7
Sector 8 Sector 9 Sector 10 Sector 11
Sector 12 Sector 13 Sector 14 Sector 15
Sector 16 Sector 17 Sector 18 Sector 19
Sector 20 Sector 21 Sector 22 Sector 23
Sector 24 Sector 25 Sector 26 Sector 27
Sector 28 Sector 29 Sector 30 Sector 31
All
None
OK
Cancel

6.4 Programming function

In the Engineer Mode, no matter how many socket adaptors on the programmer, it only can set one programmer in the same time. Please make sure the programming site is specified for use. (e.g. site#1).



6.4.1 Function for single Socket Adaptor

- **Read ID**：If IC has ID can be read and shows in Log windows and the ID can shows in ChipInfo.
- **Read IC**：Read the IC data and compare with the file data. Please refer to **6.4.3 Read IC**.
- **Erase**：Erase whole IC or specific area If IC has several partitions**.**
- **Blank Check**：Check if the target chip is blank or not.
- **Program**：Write the selected file data into the chip.
- **Verify**：Content verification between chips and loaded file.
- **Auto Batch**：Run the programming settings of batch in Config.

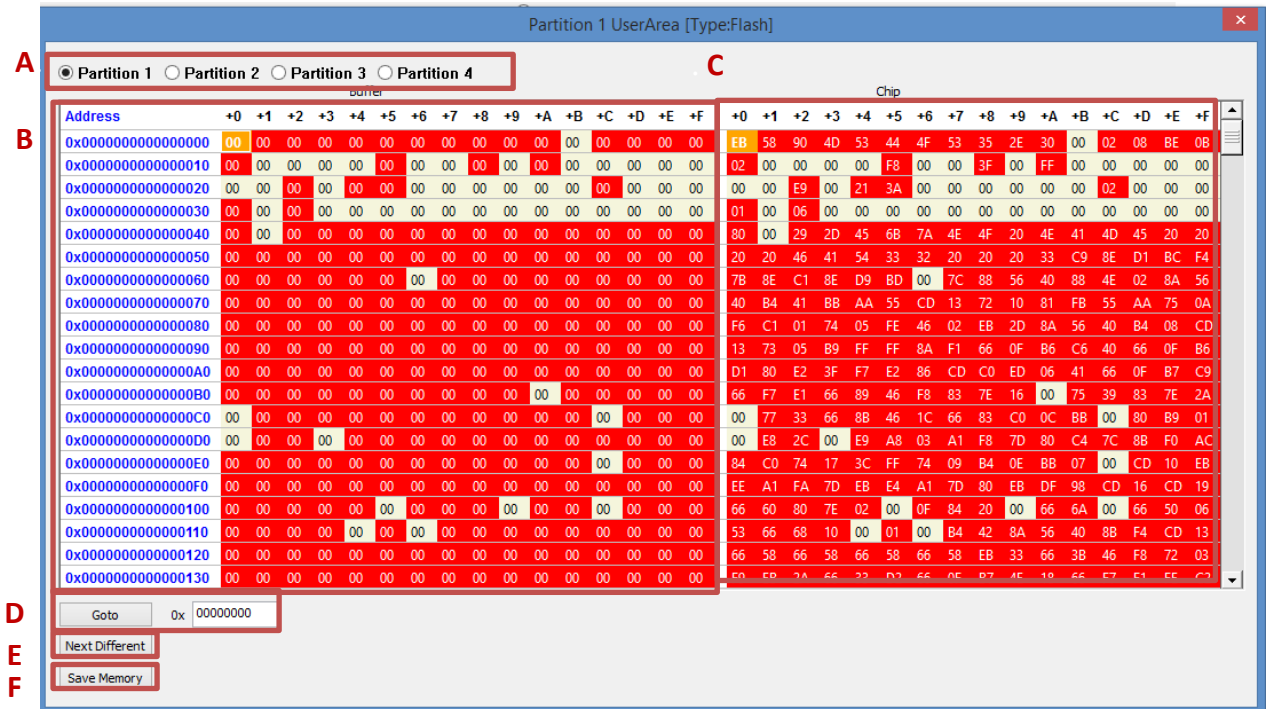
6.4.2 Function Activation Timing

Action / Function	Not select IC	Selected IC	Selected IC And load project	Selected IC ,load project, setting Config/Batch
Read ID	×	✓	✓	✓
Read Memory	×	✓	✓	✓
Erase Whole Chip	×	✓	✓	✓
Blank Check	×	✓	✓	✓
Program Chip	×		✓	✓
Checksum Verify	×		✓	✓
Auto Batch	×			✓

※When doing the project programming, the single socket function will be disabled.

6.4.3 Read IC

Windows is shown below. It's the example for eMMC programming.



A. Area Select

If the selected IC has parts of memory, the user can switch the memory area after Read memory. The area function is eMMC in this case.

B. File Window (Buffer)

Files contents will be displayed in this area.

C. Chip Window

Chip contents will be displayed in this area. The data will automatically compare with file data and show the differences in red color.

D. Goto

User can assign Dediware go to the address that user wants to examine by entering line number into the column.

E. Next Different

Dediware will indicate the differences between the loaded file and edited file.

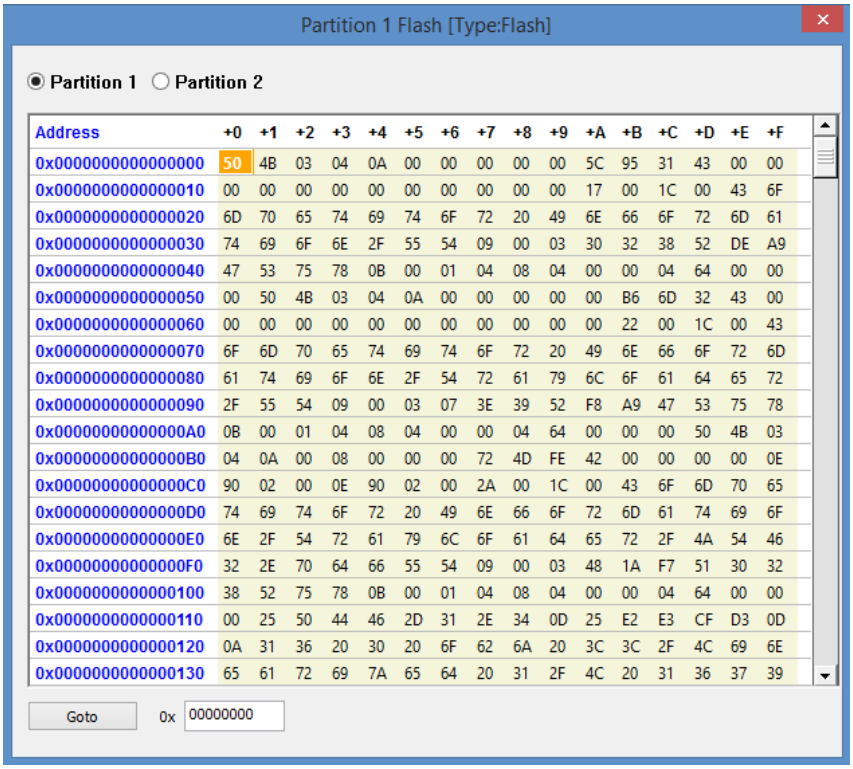
F. Save

Save the chip data of each partition.

6.5 Buffer

Buffer

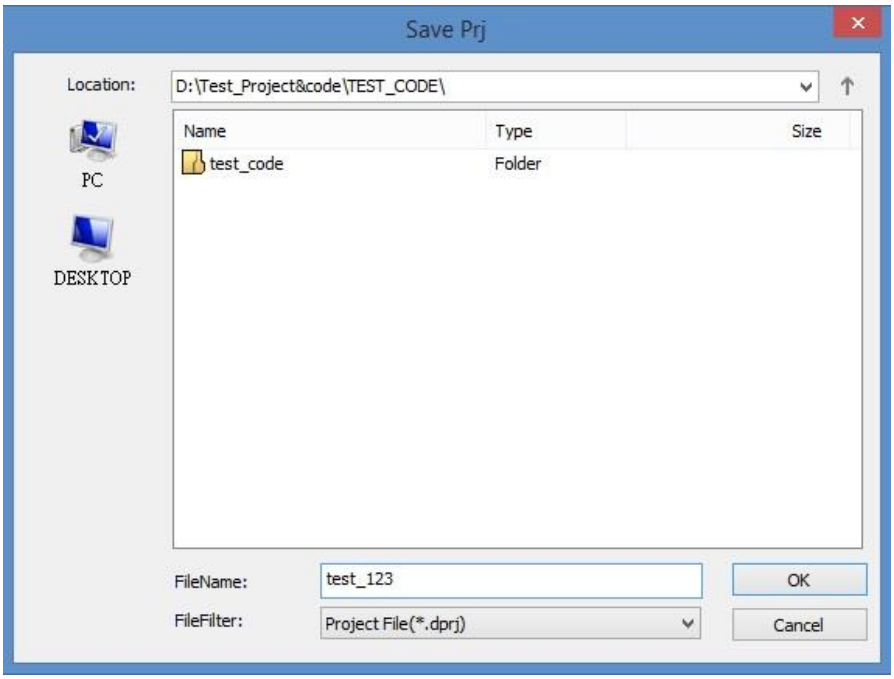
Data will be saving in the buffer after loading file. Check the data is correct address here.



6.6 Save Project

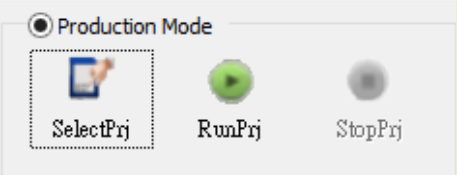
PROJ
Save Prj

After Load File, Config settings and verification, Dediware is ready to save the project for production usage. Click **SavePrj** and the window shows below, click OK to save the file.



VII. Production Mode

Production function as below,



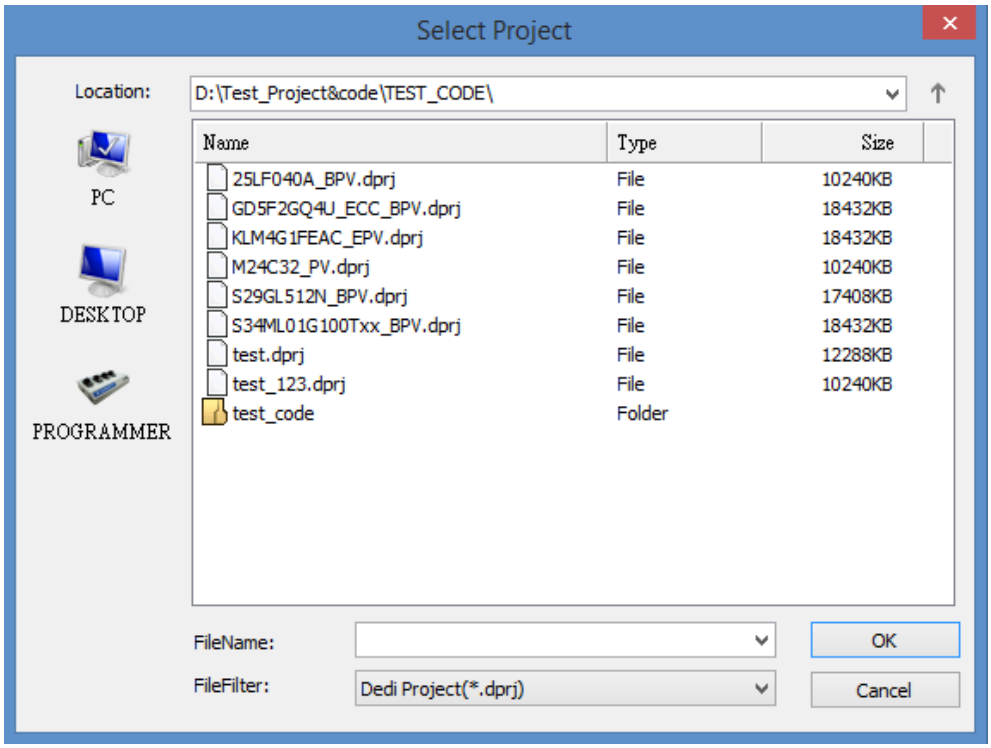
- **SelectPrj**：Select the project in the SD Card.
- **RunPrj**：Run the project.
- **StopPrj**：Stop the project.

Normal Steps: Load project > Select Project > Run Project > Stop Project

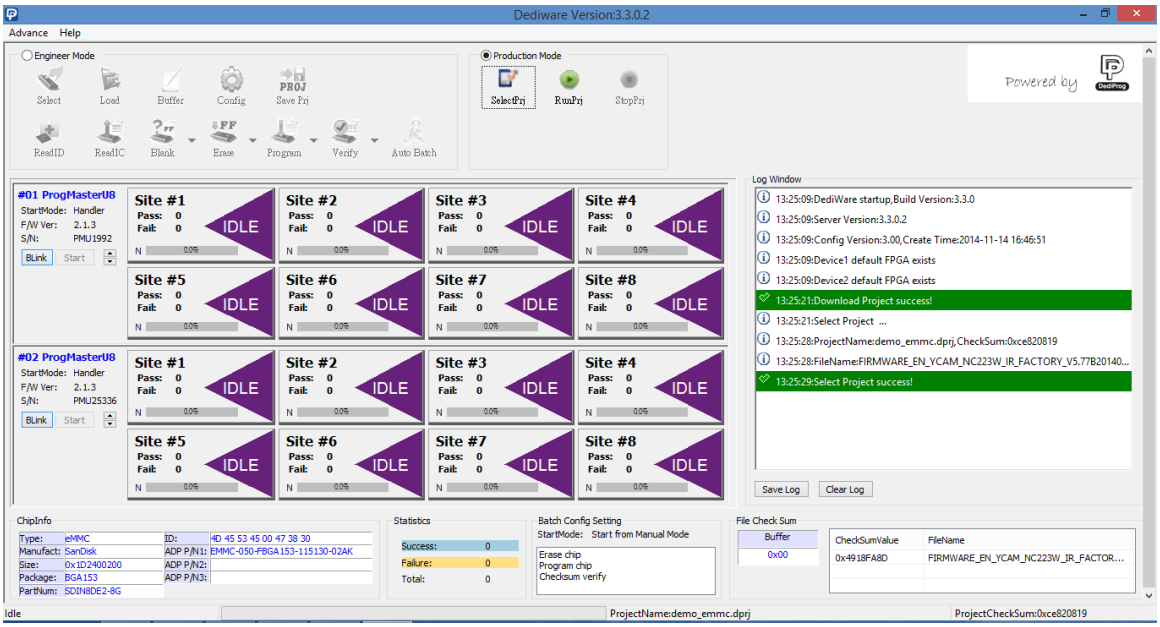
7.1 DownPrj：Download and select project.

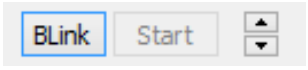
※Ensure SD card is inserted to the SD card slot before downloading the project file. Strongly recommends use the Industrial SD card with high reliability and Stability from DediProg.

Select the file and click “OK”, then the file will be downloaded to the SD card.



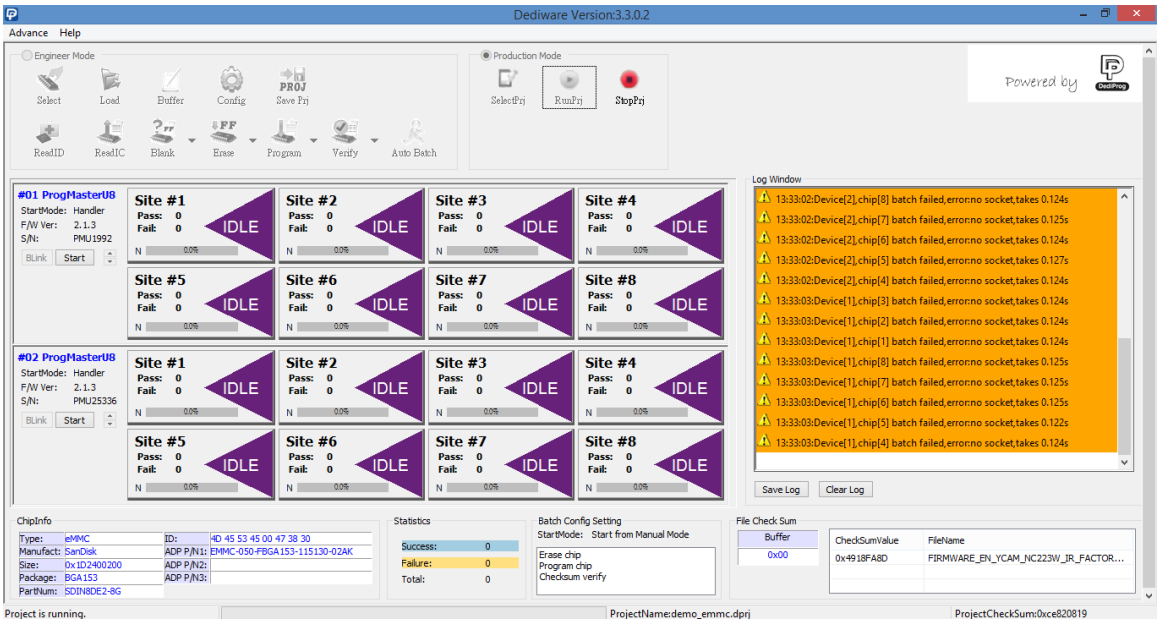
After selecting the file, the window will show IC information, batch setting, Start Mode, File Checksum, ProjectName and ProjectCheckSum.



Click “Blink” to check the programmer order is correct. 

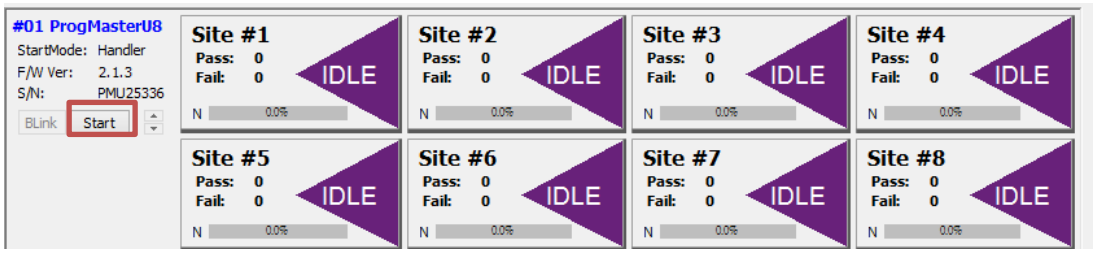
7.2 Run Project

Dediware will detect each programming site status after clicking" Run Prj". If there is no socket adaptor on the site, the log window will show in yellow color. When programmer is ready for production, Dediware will program as user setting before.



A. Start from Manual Mode：

Production mode will be activated by click "Start" on GUI or press the start button on programmer.

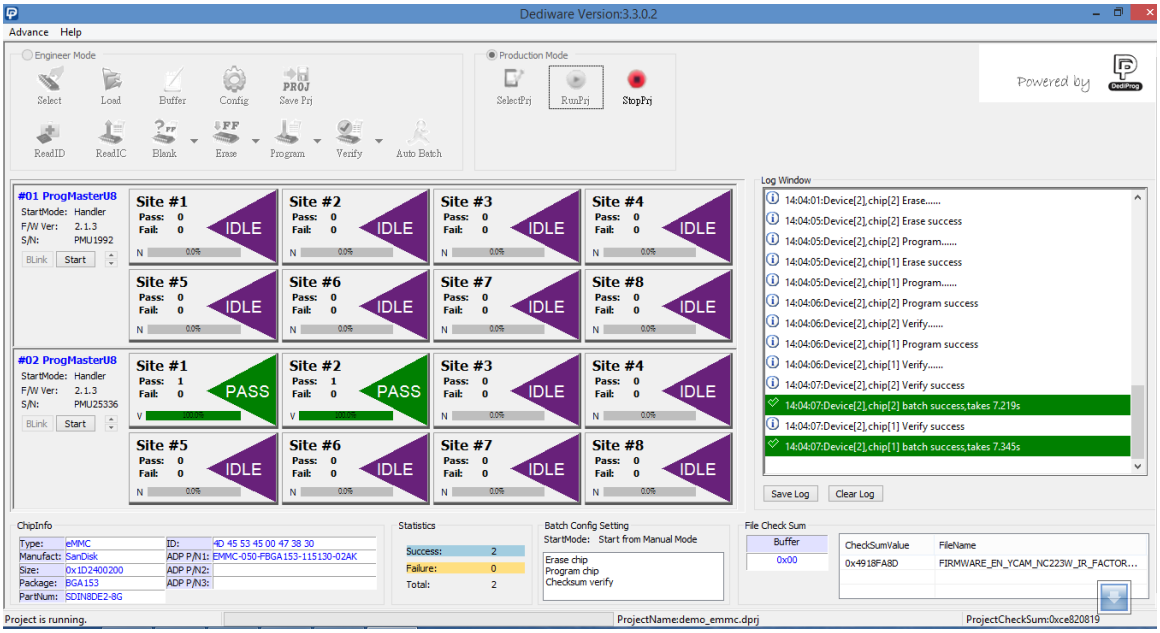


B. Start from Auto Detection：

Dediware will detect inserted chip and start to program automatically after running the RunPrj. (This function does not support eMMC and NAND Flash)

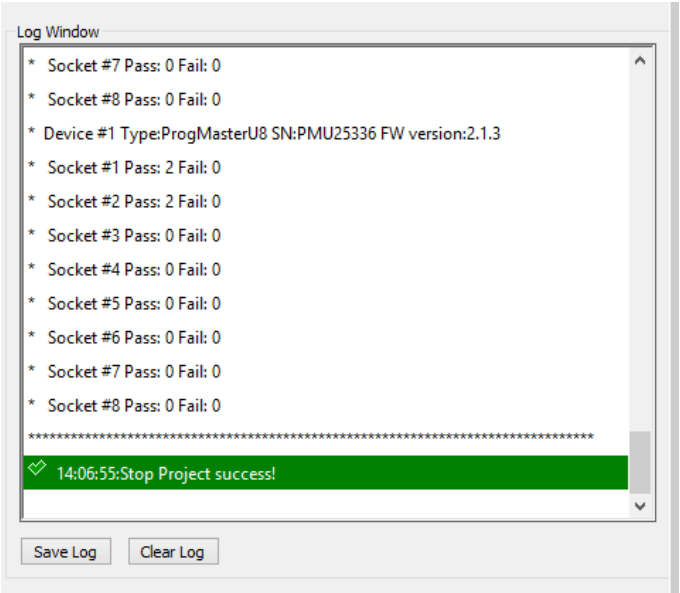
C. Start from Handler：This function is suitable for DediProg automatic system.

Start from manual mode for production



7.3 Stop Prj

Click “Stop Prj” to stop project programming. The programing result will show in Log window as below.


Log Window
* Socket #7 Pass: 0 Fail: 0
* Socket #8 Pass: 0 Fail: 0
* Device #1 Type:ProgMasterU8 SN:PMU25336 FW version:2.1.3
* Socket #1 Pass: 2 Fail: 0
* Socket #2 Pass: 2 Fail: 0
* Socket #3 Pass: 0 Fail: 0
* Socket #4 Pass: 0 Fail: 0
* Socket #5 Pass: 0 Fail: 0
* Socket #6 Pass: 0 Fail: 0
* Socket #7 Pass: 0 Fail: 0
* Socket #8 Pass: 0 Fail: 0
****
14:06:55:Stop Project success!
Save Log
Clear Log

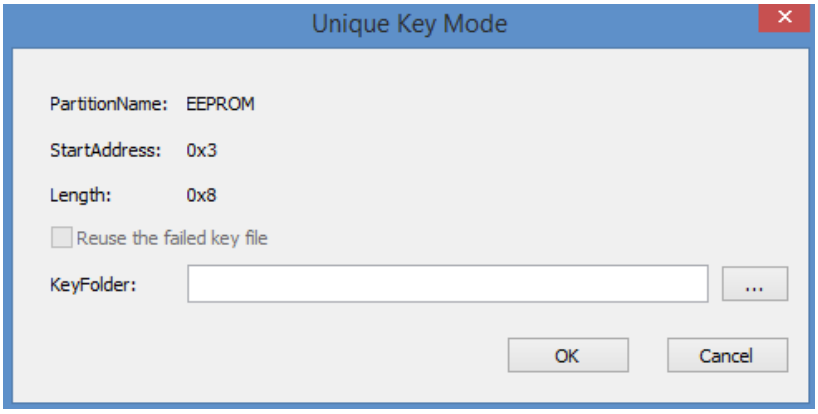
7.4 Use unique key in production

If user need to program unique key when production. Must set and enable the unique key in Config setting before make a project file. The advance setting menu will show up when user selects the project file and run project.

Dediware provides two methods to use the unique key.

7.4.1 Unique key Mode：Use the unique key file.

The information and parameter of Config unique key setting will shows here. Only need to select the path of file.

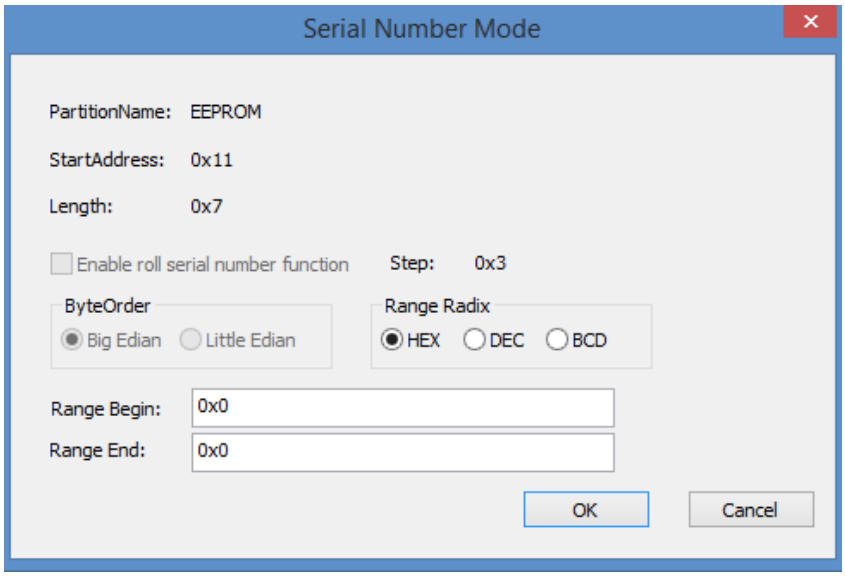


Besides, there are three folders will be installed here automatically after select key file.

- **Failed：Unique key programming failed folder.**
- **Uc-log：Save log file when program Unique key.**
- **Used：Unique key programming successful folder.**

7.4.2 Serial number mode：The unique keys will be produced by Dediware

The information and parameter of Config unique key setting will shows here. Only have to set the format (HEX / DEC / BCD) of serial numbers, start and end number.



VIII. FAQ

Q1. The message box shows up when opening Dediware

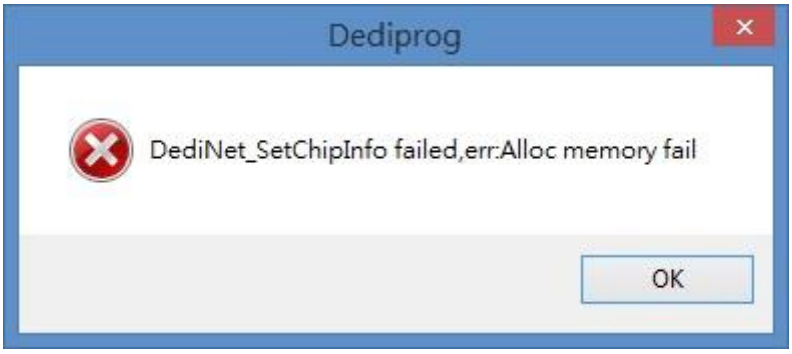
1. Plug in new programmer or the order has changed, please reset the programmer order.

- The orders of programmers have been changed, restart Dediware.
- Computer does not detect any programmer, check the power of computer.
- USB disconnected.

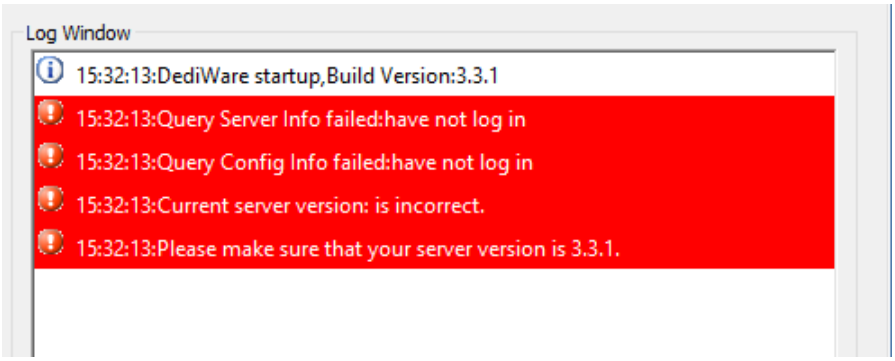
2. Query Device info failed or count is zero, please check if the ProgMaster has plug in.

- Check the power of programmers.
- USB disconnected.
- Check if the USB drivers have been installed.
- Programmer firmware does not match with Dediware software. Please update the Dediware version.

3. Please contact DediProg when this unusual message popup.

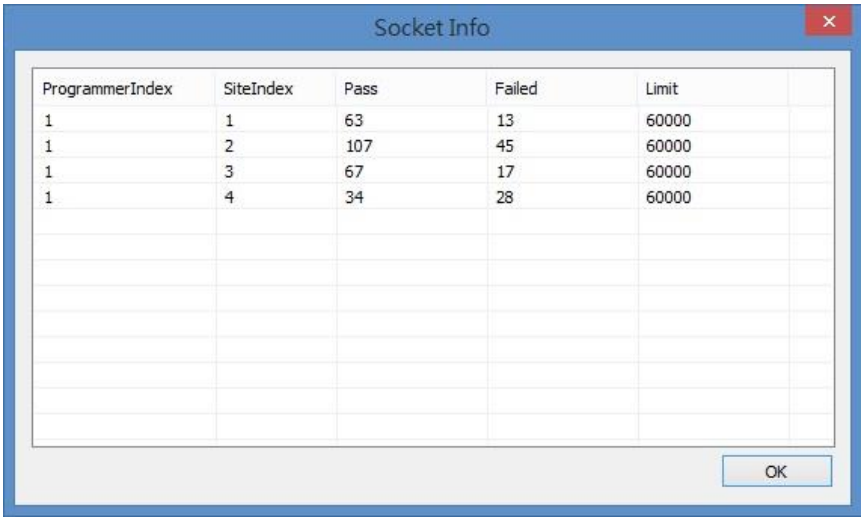


4. The programmer Firmware only support older Dediware version. Please upgrade the Firmware and restart the Dediware.


Log Window
15:32:13:DediWare startup,Build Version:3.3.1
15:32:13:Query Server Info failed:have not log in
15:32:13:Query Config Info failed:have not log in
15:32:13:Current server version: is incorrect.
15:32:13:Please make sure that your server version is 3.3.1.

Q2. Right-Click can't execute any function after inserting socket adaptor?

Please select Advance > Socket > Socket count two confirm the socket adaptor information. If socket adaptors do not show any following information that means socket adaptor disconnected or the control IC of socket adaptor has broken. Please contact DediProg.



Q3. Programmer doesn't detect the socket adaptor on the programming site after running project?

Please refer to Q2 to check the socket information. Maybe socket adaptor is disconnected or control IC is broken.

Q4. Do I have to pay extra fee to upgrade my Dediware or programmer firmware?

DediProg offers **FREE** software and firmware update once users buy StarProg-F / U and ProgMaster series programmers. User can download the latest software on DediProg website.

Q5. How to upgrade my programmer firmware?

New Dediware version (3.x.x) has to be used with 2.x.x firmware version.

1.If firmware version is 1.x.x，please refer to the following steps for update.

Step 1：Install the new version of Dediware and the firmware (2.x.x) will be in the installation folder. (**Default path：C:\Program Files (x86)\Dediprog\Firmware**)

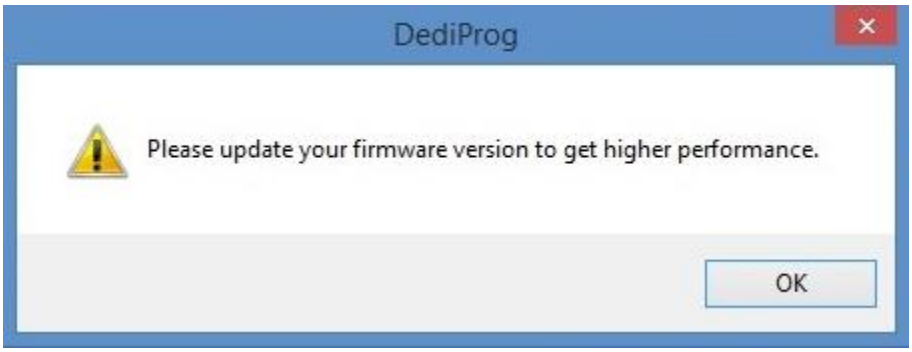
Step 2：Close the Dediware and open the **old** Dediware version.

Step 3：Going to Menu > Help > Firmware Manual update the firmware to 2.x.x version.

Step 4：Restart programmer and open the new Dediware to confirm the firmware version.

2. Firmware version is 2.x.x

The pop-up message shown below occurs when user opens Dediware after installing the new version of Dediware. Please update firmware with the following steps.

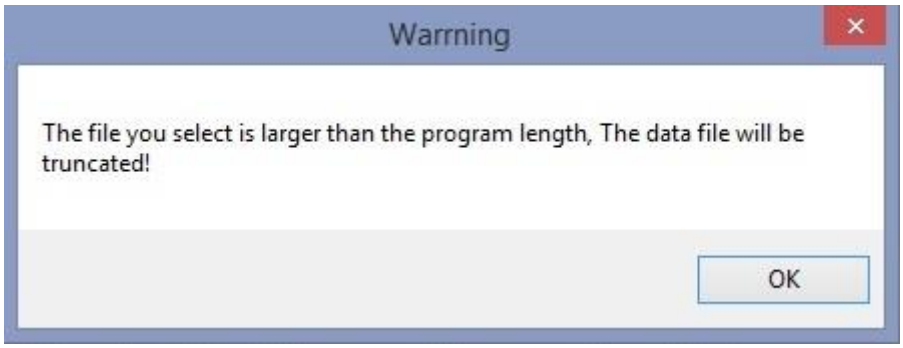


Step 1：Going to Menu > Help > Firmware Manual Update and select firmware (2.x.x) to update. The new firmware file will be saved to installation folder.

Step 2：Turn off the programmer power and turn on again. Open new Dediware and check the firmware version.

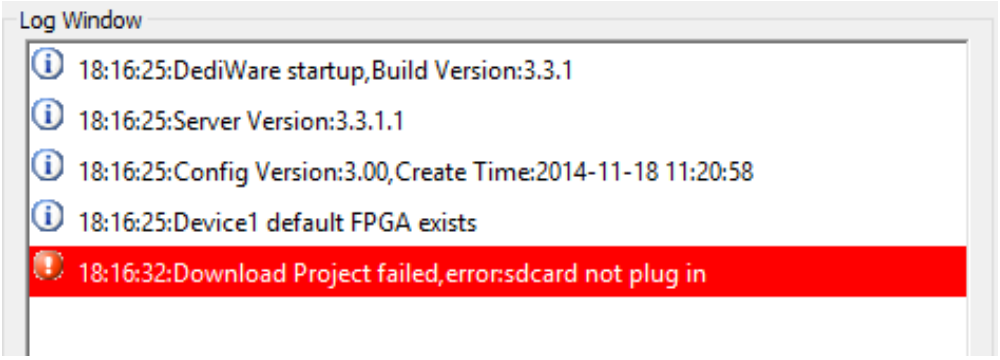
Q6. Message warning when loading files?

1. Selected file size is bigger than partition size. Press OK will truncate the file to fit the partition space. But Dediware does not check the data importance.



2. When the user load several files which will overwrite the old files. Please make sure the size and memory address of each file do not overlap each other.

Q7. Message shows up when using production mode?



Please check:

1. The SD card is installed in the SD card slot properly.

2. The SD card is broken or not.

※Strongly recommends use the Industrial SD card with high reliability and Stability from DediProg.

Q8. About contact testing

Dediware supports contact testing when using auto detection or manual mode for project programming. Contact testing can reduce the mistake made by the operator. The operation steps are showed below.

Step 1：The lights of original programmer status are all off.

Step 2：Start programming. The yellow light turns on.

Step 3：One of the successful green light or fail red light will turns on after programming. If the user presses the start button by accident, the programmer will not work while the IC is still in the socket.

Step 4：All lights will turns off after picking up the IC.

Step 1 Step 2 Step 3 Step 4

Contact testing will start working after running the" RunPrj".

Note：
If user only press the socket down but not pick up the IC (Step 3), the programmer will determine that IC has been picked. Contact testing only check IC and socket connecting but not detect IC programming or not. User can use Dediware to check the IC programming status.

Q9. Log shows "Contact Fail" when programming?

1. Check IC number and manufacturer is correct.
2. Check socket adapter model name is correct.
3. Confirm the socket adapter connection.
4. Update the software version.

Q10. Log shows "Erase Fail" when erase NAND Flash?

Too many bad blocks may cause this issue. Please go Config>Batch>Erase>Enable Force Erase. Use batch to do all erase and check the log.

Q11. Programming successful, but cannot work on the motherboard?

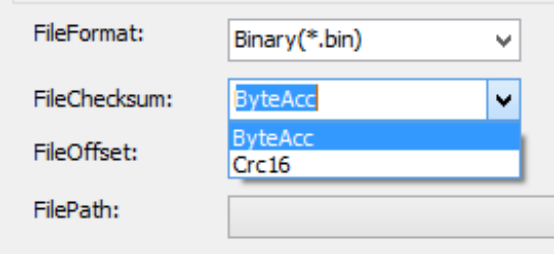
Exclude the cold solder problem on motherboard, you can also check software setting：

1. Check programming file, unused byte setting, file format and offset address.
2. If IC has multiple partitions, make sure do not missing each partition.
3. Is there any missing for the option setting.

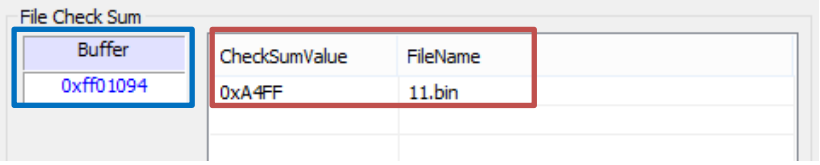
Q12.About Checksum ?

Dediware have two kinds of Checksum, File Checksum and Chip Checksum.

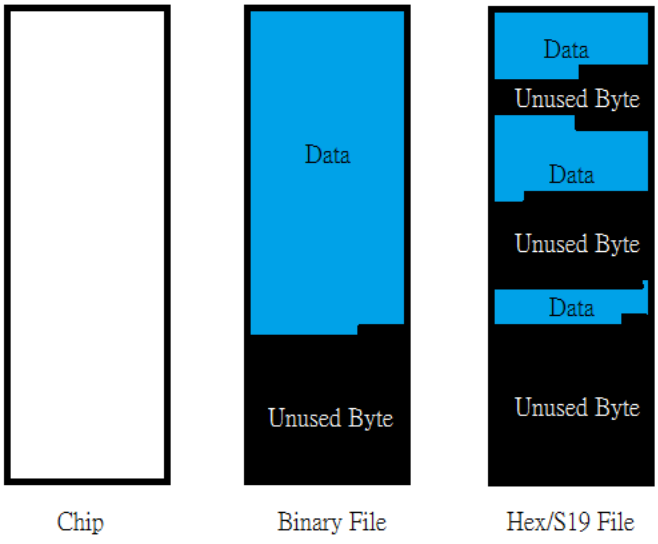
There are two types of File Checksum can be selected when setting the “load file”.



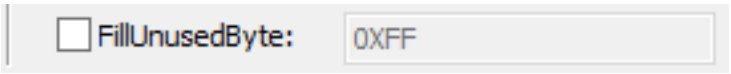
The red frame as below shows the File Checksum after loading file. The blue frame is Chip Checksum.



Chip Checksum is the calculation of total IC memory that can be programmed. If IC has Flash and EEPROM, Chip Checksum will make summary of those contents. Please notice the file size and format for Chip Checksum, Binary data are connected but Hex/S19 are decentralized data. Therefore, setting Unused Byte will affect the summary of Chip Checksum.



Setting the Unused Byte when Load File. The default value is”0xFF”if user does not set the Unused Byte.



IX.Revision History

Date	Version	Change
08/28/2013	1.0	Initial release
05/26/2014	1.1	● Remove MCU Prog / StarProg ATE(Flash) ● Separate StarProg to StarProg-F and StarProg-U
07/29/2014	2.0	New Dediware software release
11/28/2014	2.1	Update the GUI.
04/07/2015	2.2	Remove 7.4 CLI & API Control

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